

## Chapter Review

### 1-24d Challenge: Case Problem 3

**Data Files needed for this Case Problem:** dr\_index\_txt.html, dr\_info\_txt.htm, dr\_faqs\_txt.html, 4 CSS files, 2 PNG files, 3 TXT files

Diane's Run *Diane's Run* is a charity run to raise money for breast cancer awareness and research funding. Peter Wheaton is the charity run's organizer and he has asked you to help modify the run's website. He has revised text that he wants added to the current site. A preview of the page you'll create is shown in [Figure 1-48](#).

**Figure 1-48**

#### Diane's Run home page

[FAQ](#)[Race Info](#)[Home](#)

### What Your Support Does

Every 10 minutes a woman is diagnosed with breast cancer. Her first reaction is fear and confusion. Support is just a phone call or mouse click away. Our free services offer a friendly ear and expert guidance to anyone dealing with this life-threatening illness.

By running or walking with us, you can ensure that we are there when people need us. Here is how your contribution can help:

- **\$15** pays for a headscarf set, boosting the confidence of women who have lost their hair from her breast cancer treatment.
- **\$50** trains a member of our support network for a year to help improve the care of women with breast cancer.
- **\$125** covers the cost of counseling sessions to help women cope with the distress of their cancer treatment.
- **\$250** funds a hospital information station for a year so that people affected by breast cancer have easy access to the latest resources and help.



### Diane's Run - September 9, 2017

Join over 2000 athletes in Cheyenne, Wyoming, for **Diane's Run** to raise money for breast cancer awareness and research. The 5K and 10K races are challenging, yet attainable. You can aim for a personal best while taking part to raise money for this important charity. If you can't run, consider walking; joining young and old in the fight by participating in the 1-Mile Walk for Hope.

#### How to Join

You can guarantee a spot by filling out the entry form and mailing it to [dianesrun@example.com](mailto:dianesrun@example.com). The \$35 entry fee is tax deductible and goes directly to important research and women in need. We keep our overhead very low so every dollar counts. More than 75% of the net proceeds fund screening and treatment programs in your communities. We welcome out-of-town visitors. We will help you find [accommodations](#) during your visit.

#### History

Since its inception in 2004, Diane's Run has grown from a purely local event involving 100 runners to a signature Wyoming event with more than 2000 participants annually. The event is enormously effective in spreading the message that breast cancer need not be fatal if caught early enough with mammography and breast self-exam. As well as a top-flight athletic event, Diane's Run is an emotionally moving event attracting many first timers and recreational runners. This event provides all of us with the opportunity to spread a hopeful message about breast cancer to our families and our communities.

#### Remembering Diane

Diane's Run is named in remembrance of Diane Wheaton, mother of 2 and wife of Peter, who passed away in May, 2003. Diane was an outspoken advocate of physical fitness and healthy living. She was an inspiration to all who knew her and continues to be an inspiration to the thousands of runners who have participated in this event.

We hope you can join us this year and become part of the Diane's Run family.

Diane's Run ♥ 45 Mountain Drive ♥ Cheyenne, WY 82001

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Peter has supplied you with the text content, the graphic images, and style sheets you need for the project. Your job will be to write HTML code for three pages: the site's home page, a page containing race information, and finally a page containing a list of frequently asked questions (FAQ's).

Complete the following:

1

Using your editor, open the **dr\_index\_txt.html**, **dr\_info\_txt.html**, and **dr\_faq\_txt.html** files from the html01 ► case3 folder. Enter ***your name*** and ***the date*** in the comment section of each file, and save them as **dr\_index.html**, **dr\_info.html**, and **dr\_faq.html** respectively.

2

Go to the **dr\_index.html** file in your HTML editor. Within the document head, add the following metadata:

Set the character encoding of the file to **utf-8**.

Insert the search keywords: **breast cancer**, **run**, **race**, and **charity**.

Set the title of the document to **Diane's Run**.

Link the document to the **dr\_base.css** and **dr\_layout.css** style sheet files.

3

Within the document body, insert a **header** element, two **section** elements, and a **footer** element.

4

In the **header** element, insert a navigation list containing an unordered list with the items:

**Home**, **Race Info**, and **FAQ**. Link the items to the **dr\_index.html**, **dr\_info.html**, and **dr\_faq.html** files respectively.

5

The file **dr\_index.txt** contains the text to be inserted into the Diane's Run home page. Go to the **dr\_index.txt** file in your text editor and copy the text from the first section of the file. Then, go to the **dr\_index.html** file in your HTML editor and paste it into the first **section** element.

6

Add the following markup to the content of the first **section** element:

Mark the line *What Your Support Does* as an **h1** heading.

Mark the next two paragraphs as paragraphs using the `p` element.

Mark the four ways a contribution can help as an unordered list. Mark the dollar amounts of each list item using the `strong` element.

7

Return to the **dr\_index.txt** file in your text editor, copy the text from the second section, then close the **dr\_index.txt** file. Go to the **dr\_index.html** file in your HTML editor and paste the copied text within the second `section` element.

8

Within the second `section` element in the **dr\_index.html** file, add the following:

Enclose the opening heading *Diane's Run - September 9, 2017* within a `header` element and marked as an h1 heading. Directly above this heading, insert the inline image file **dr\_photo1.png** with **Diane's Run** as the alternate text of the image.

Mark the first paragraph after the header as a paragraph. Mark the text *Diane's Run* in this opening paragraph using the `strong` element.

Mark the minor headings *How to Join*, *History*, and *Remembering Diane* as h2 headings. Mark the other blocks of text as paragraphs.

9

Within the `footer` element, insert the following text:

**Diane's Run ♥ 45 Mountain Drive ♥ Cheyenne, WY 82001**

where the ♥ character is inserted using the character code **9829**.

10

Save your changes to the file and then open **dr\_index.html** in your browser. Verify that the content and the layout of the page resemble that shown in [Figure 1-48](#).


11

Go to the **dr\_info.html** file in your HTML editor. Within the document head, link the page to the **dr\_base.css** and **dr\_layout2.css** style sheets.

12

Go to the **dr\_index.html** file in your HTML editor and copy the body header content. Then, go to the **dr\_info.html** file in your HTML editor and paste the copied content into the document body. Repeat for the body footer so that the Racing Information page has the same navigation list and footer as the home page. Between the `header` and `footer` element, insert a `section` element.

13

 **Explore** Within the `section` element, insert a `header` element with the following content:

Insert a paragraph with the text **Page last updated: Tuesday, August 29, 2017**. Mark the date using the `time` element with the `datetime` attribute equal to **2017-08-29**.

Add the text **Race Information** as an h1 heading.

Insert the inline image file `dr_logo.png` with **Diane's Run** as the alternate text.

14

Go to the `dr_info.txt` file in your text editor. This file contains the text describing the race. Copy the content describing the race from the file, then close the `dr_info.txt` file. Go to the `dr_info.html` file in your HTML editor and paste the copied text into the `section` element, directly after the section header.

15

Mark the content of the `section` element as follows:

Mark the opening block of text directly after the section header as a paragraph.

Mark the headings *Race Times*, *Goodies and Stuff*, and *Notes* as h2 headings.

Below each of the `h2` elements, mark the list of items that follows as an unordered list.

16

Save your changes to the file and then load `dr_info.html` in your browser to verify that the layout and content are readable.

17

Go to the `dr_faq.html` file in your HTML editor. Within the document head, link the page to the `dr_base.css` and `dr_layout3.css` style sheets.

18

Go to the `dr_index.html` file in your HTML editor and copy the body header content. Then, go to the `dr_faq.html` file in your HTML editor and paste the copied content into the document body. Repeat with the body footer so that the FAQ page has the same navigation list and footer as was used in the home page. Between the `header` and `footer` element, insert a `section` element.

Within the `section` element, insert a `header` element with the `id` attribute **pagetop**. Within the header, insert the inline image file `dr_logo.png` with the alternate text **Diane's Run** followed by the `h1` element with the text **Frequently Asked Questions**.

Go to the **dr\_faq.txt** file in your text editor. This file contains a list of frequently asked questions followed by the question answers. Copy the text and then close the `dr_faq.txt` file. Then, go to the `dr_faq.html` file in your HTML editor and paste the copied text into the `section` element, directly after the section header.



**Explore** Next, you'll create a series of hypertext links between the list of questions and their answers within the same document. Make the following changes to the `section` element in the `dr_faq.html` file:

Mark the 13 questions at the top of the section as an ordered list.

Notice that below the ordered list you just created, the questions are repeated and each question is followed by its answer. Mark the text of those questions as an `h2` heading and the answer as a paragraph. Add an `id` attribute to each of the 13 `h2` headings with the first heading given the `id` **faq1**, the second heading **faq2**, and so forth down to **faq13** for the last `h2` heading.

After the last answer, insert a paragraph with the text **Return to the Top** and mark the text as a hypertext link pointing to the `header` element with the `id` **pagetop**.

Return to the ordered list at the top of the section that you created in Step a. Change each item in the ordered list to a hypertext link pointing to the `h2` heading containing the question's answer that you created in Step b. For example, the first question *How do I sign up?* should be linked to the `h2` heading with the `faq1` `id`.

Save your changes to the file and then open **dr\_faq.html** in your browser. Verify that by clicking a question within the ordered list, the browser jumps to that question's answer. Further, verify that clicking the Return to the Top link at the bottom of the page causes the browser to return to the top of the page.



**Explore** Return to the `dr_index.html` file in your HTML editor. Add the following two hypertext links to the *How to Join* paragraph in the second `section` element:

Change the e-mail address *dianesrun@example.com* to an e-mail link with the subject heading Entry Form.

Change the word *accommodations* to a hypertext link pointing to the element with the id `faq13` in the `dr_faq.html` file.

24

Save your changes to the file and reload `dr_index.html` in your browser. Verify that clicking the e-mail link brings up your e-mail program with the e-mail address and the subject heading already filled in.

25

Click the accommodations hypertext link and verify that the browser goes to the last answer on the FAQ page.

26

Verify that you can jump between all three pages by clicking the navigation links at the top of the page.