Focus on Web Design

There are web design usability and accessibility issues associated with HTML5 video. Visit the following sites to become aware of these issues:

- https://developer.mozilla.org/en-US/docs/Learn/Accessibility/Multimedia
- https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Cross_browser_testing/Accessibility
- http://www.afb.org/blog/afb-blog/an-accessible-html5-video-player-from-the-american-foundation-for-the-blind/12

Write a one-page report that describes HTML5 Video usability issues that web designers should be mindful of. Cite the URLs of the resources you used.

Website Case Study Adding Multimedia

Each of the following case studies continues throughout most of the text. This chapter adds media and interactivity to the websites.

JavaJam Coffee Bar

See Chapter 2 for an introduction to the JavaJam Coffee Bar case study. Figure 2.32 shows a site map for the JavaJam website. Use the Chapter 9 JavaJam website as a starting point for this case study. You have three tasks in this case study:

1. Create a new folder for this JavaJam case study.
2. Modify the style sheet (javajam.css) to configure style rules for an audio element.
3. Configure the Music page (music.html) to play audio files. Figure 11.21 shows the Music page with the audio players.

Figure 11.21 **The audio element on the Music page**

Hands-On Practice Case Study

TASK 1: THE WEBSITE FOLDER. Create a folder called javajam11. Copy all the files from your Chapter 9 javajam9 folder into the javajam11 folder. Copy the files from the chapter11/starters/javajam folder in the student files and save them to your javajam11 folder.

TASK 2: CONFIGURE THE CSS. Modify the external style sheet (javajam.css). Open javajam.css in a text editor. Code an audio element selector above the media queries with block display and 1em of top margin. Save the javajam.css file.

TASK 3: UPDATE THE MUSIC PAGE. Open music.html in a text editor. Modify music.html so that two HTML5 audio controls display (see Figure 11.21). Refer to Hands-On Practice 11.2 when you create the audio control. Configure an audio control within the div about Melanie to play the melanie.mp3 or melanie.ogg file and provide a hyperlink to the melanie.mp3 file as a fallback if the
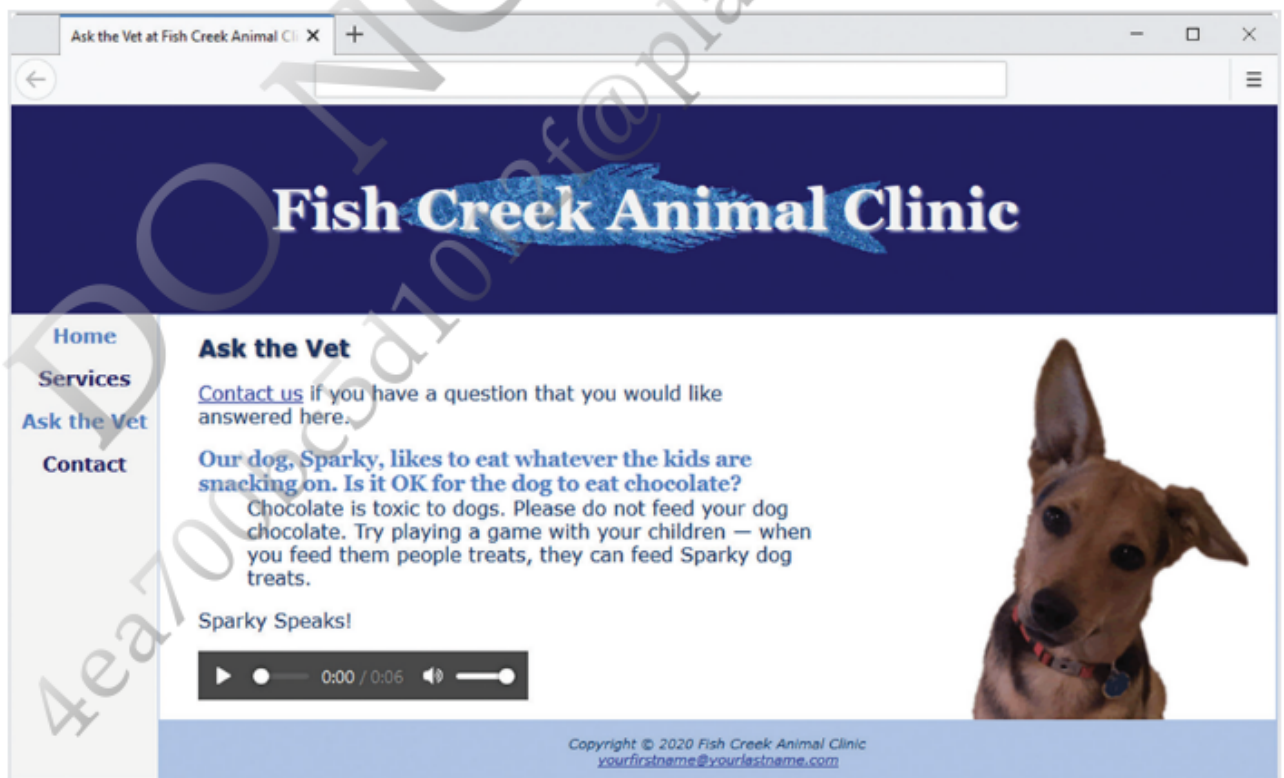
audio element is not supported. Configure an audio control within the div about Greg to play the greg.mp3 or greg.ogg file and provide a hyperlink to the greg.mp3 file as a fallback if the audio element is not supported. Save the web page. Check your HTML syntax using the W3C validator (https://validator.w3.org). Correct and retest if necessary. Display the page in different browsers and play the audio files.

Fish Creek Animal Clinic

See Chapter 2 for an introduction to the Fish Creek Animal Clinic case study. Figure 2.36 shows a site map for the Fish Creek website. Use the Chapter 9 Fish Creek website as a starting point for this case study. You have three tasks in this case study:

1. Create a new folder for this Fish Creek case study.
2. Modify fishcreek.css to configure an animated page heading and the placement of an audio control.
3. Add an audio control to the Ask the Vet page (askvet.html). See Figure 11.22 for a sample screenshot.

Figure 11.22   Fish Creek Ask the Vet page with an audio element

Hands-On Practice Case Study

TASK 1: THE WEBSITE FOLDER. Create a folder called fishcreek11. Copy all the files from your Chapter 9 fishcreek9 folder into the fishcreek11 folder. Copy the files from the chapter11/starters/fishcreek folder in the student files and save them to your fishcreek11 folder.

TASK 2: CONFIGURE THE CSS. Modify the external style sheet (fishcreek.css). Open fishcreek. css in a text editor. First, configure the animation style rules above the media queries. Code a @keyframes rule named `fadein` that begins with opacity set to 0 and ends with opacity set to 1. Code a style rule for the h1 element selector that configures the `fadein` animation with a five second duration and ease-out timing. Next, prepare for a new flex item on the Ask the Vet page. Locate the first media query and add a style rule for the article element selector that configures `flex: 2`. Save the fishcreek.css file.
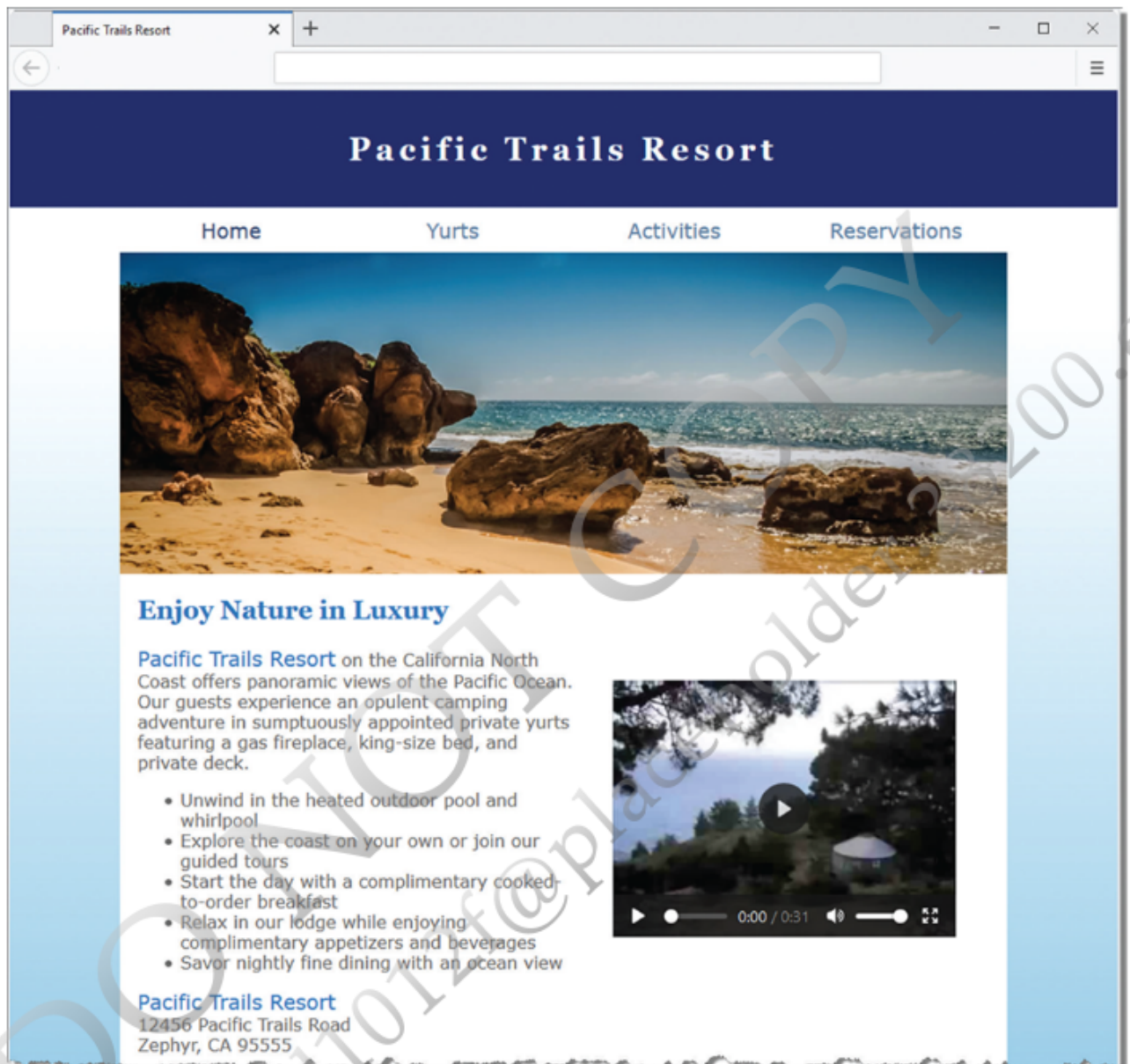
TASK 3: CONFIGURE AN AUDIO CONTROL ON THE ASK THE VET PAGE. Launch a text editor and edit the Ask the Vet page (askvet.html). Add the text "Sparky Speaks!" within an h3 element below the description list. Configure an audio control (sparky.mp3 and sparky.ogg files) to display below the h3 element. Use the HTML5 audio and source elements. Code an article element that contains the description list, h3, and audio elements. Check your HTML syntax using the W3C validator (https://validator.w3.org). Correct and retest if necessary. Save your web page and test it using several browsers.

Pacific Trails Resort

See Chapter 2 for an introduction to the Pacific Trails Resort case study. Figure 2.40 shows a site map for the Pacific Trails website. Use the Chapter 9 Pacific Trails website as a starting point for this case study. You have three tasks in this case study:

1. Create a new folder for this Pacific Trails case study.
2. Modify pacific.css to configure the placement of a video.
3. Add a video to the home page (index.html). See Figure 11.23 for a sample screenshot.

Figure 11.23 Pacific Trails Resort home page

Hands-On Practice Case Study

TASK 1: THE WEBSITE FOLDER. Create a folder called pacific11. Copy all of the files from your Chapter 9 pacific9 folder into the pacific11 folder. Copy the files from the chapter11/starters/pacific folder in the student files and save them in your pacific11 folder.

TASK 2: CONFIGURE THE CSS. Modify the external style sheet (pacific.css). Open pacific.css in a text editor. Edit the CSS and configure a new video element selector above the media queries with style declarations to float to the right and margin set to 2em. Save the pacific.css file.

TASK 3: CONFIGURE THE VIDEO. Launch a text editor and open the home page (index.html). Code the HTML5 video control below the h2 element and above the paragraph. Configure the video, and source elements to work with the following files: pacific.mp4, pacific.ogv, and pacific.jpg. The

dimensions of the video are 320 pixels wide by 240 pixels high. Save the file. Check your HTML syntax using the W3C validator (https://validator.w3.org). Launch a browser and test your new Home page (index.html). It should look similar to Figure 11.23.

Path of Light Yoga Studio

See Chapter 2 for an introduction to the Path of Light Yoga Studio case study. Figure 2.44 shows a site map for the Path of Light Yoga Studio website. Use the Chapter 9 Path of Light Yoga Studio website as a starting point for this case study. You have three tasks:

1. Create a new folder for this Path of Light Yoga Studio case study.
2. Modify yoga.css to configure the placement of an audio element.
3. Configure the Classes page (classes.html) to display an audio control.

Hands-On Practice Case Study

TASK 1: THE WEBSITE FOLDER. Create a folder called yoga11. Copy all of the files from your - Chapter 9 yoga9 folder into the yoga11 folder. Copy the files from the chapter11/starters/yoga folder in the student files and save them in your yoga11 folder.

TASK 2: CONFIGURE THE CSS. Modify the external style sheet (yoga.css). Open yoga.css in a text editor. Edit the CSS and code a new audio element selector above the media queries with block display and 1em margins. Save the yoga.css file.

TASK 3: CONFIGURE THE AUDIO. Open the Classes page (classes.html) in a text editor. Modify classes.html so that a heading, a paragraph, and an HTML5 audio control displays below the div assigned to the id named flow (see Figure 11.24). Use an h2 element to display the text "Relax Anytime with Savasana". Add a paragraph that contains the following text:

"Prepare yourself for savasana. Lie down on your yoga mat with your arms at your side with palms up. Close your eyes and breathe slowly but deeply. Sink into the mat and let your worries slip away. When you are ready, roll on your side and use your arms to push yourself to a sitting position with crossed legs. Place your hands in a prayer position. Be grateful for all that you have in life. Namaste."

Figure 11.24 **The classes page displays an HTML5 audio control**

Path of Light Yoga Studio :: Classes

Home   Classes   Schedule   Contact

Path of Light Yoga Studio

Yoga Classes

Gentle Hatha Yoga

A 60 minute class of poses and slow movement that focuses on asana (proper alignment and posture), pranayama (breath work), and guided meditation to foster your mind and body connection. This class is intended for beginners and anyone wishing a grounded foundation in the practice of yoga.

Vinyasa Yoga

A 60 minute class that focuses on breath-synchronized movement — you will inhale and exhale as you flow energetically through yoga poses. While intended for intermediate to advanced students, beginners are welcome to join in this class.

Restorative Yoga

A 90 minute class that features very slow movement and long poses. Restorative yoga is useful in relieving stress and fostering a sense of well-being. This calming, restorative experience is suitable for students of any level of experience.

Relax Anytime with Savasana

Prepare yourself for savasana. Lie down on your yoga mat with your arms at your side with palms up. Close your eyes and breathe slowly but deeply. Sink into the mat and let your worries slip away. When you are ready, roll on your side and use your arms to push yourself to a sitting position with crossed legs. Place your hands in a prayer position. Be grateful for all that you have in life. Namaste.

▶ ● 0:00 / 1:25 ◀ ——

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Refer to Hands-On Practice 11.2 when you create the audio control. Configure the audio and source elements to work with the following files: savasana.mp3 and savasana.ogg. Configure a hyperlink to the savasana.mp3 file as a fallback if the audio element is not supported. Save the file. Check your HTML syntax using the W3C validator (https://validator.w3.org). Correct and retest if necessary. Launch a browser and test your new Classes page (classes.html). It should look similar to Figure 11.24.

Web Project

See Chapter 5 for an introduction to the Web Project case study. Review the goals of your website and determine whether the use of media or interactivity would add value to your site. If so, you will add either media and/or interactivity to your project site. Check with your instructor regarding the required use of any specific media or technology that supports interactivity in your web project.

Select one or more from the following:

1. Media: Choose one of the examples from the chapter, record your own audio or media file, or search the Web for royalty-free media.
2. CSS image gallery: Create or locate images that relate to your web project. Using Hands-On Practice 11.7 as an example, configure a CSS image gallery.
3. Details & Summary Widget: Choose a web page in your project that contains definitions or descriptions of items that could be enhanced with a details and summary widget. Using Hands-On Practice 11.9 as an example, configure a details and summary widget.
4. Decide where to apply the media and/or interactive technology to your site. Modify, save the page(s), and test in various browsers.