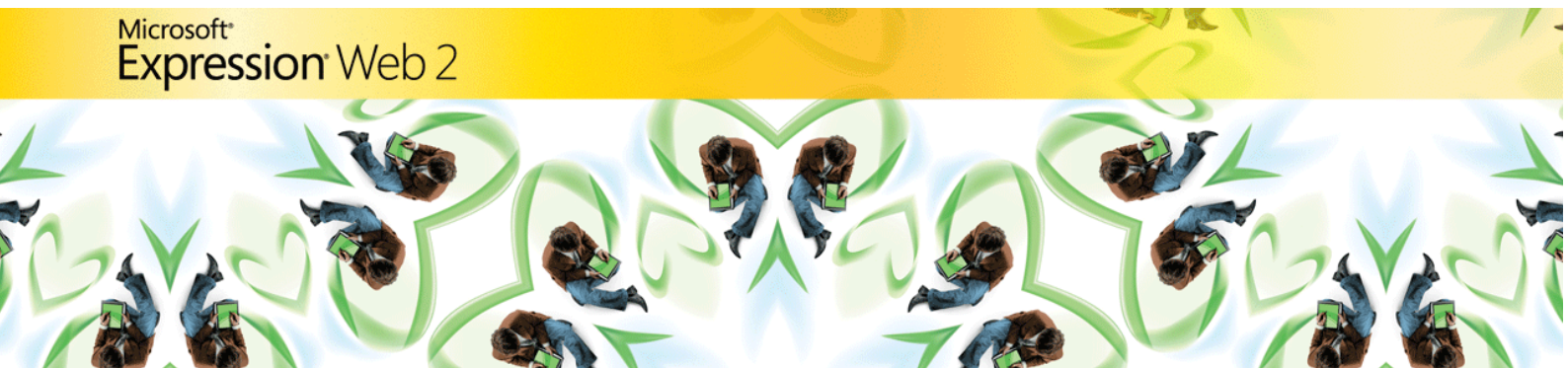
Expression Web Lab Exercises

Expression Web Quick Start Tutorial

Beaches Around the World

By Aseem Badshah

(Part 2: Beaches Around the World series)



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Setup

All of the files and images needed to complete the activities in this Quick Start guide are located in the accompanying **Beaches Resources** file. Extract this file to a convenient location where student files are typically stored. Files will be extracted to a folder named **Beaches Resources. T**he completed site files are also located in the **Expression Web Quick Start Tutorial Beaches Around the World** folder.

The screenshots of Expression Web in this tutorial are shown in the **Default Windows** color scheme of Expression Web and may not be the same colors as the version of Expression Web installed on student computers. If desired, set the Expression Web color scheme to your current Windows color scheme. Click **Application Options** on the **Tools** menu**.** In the **Application Options** dialog box select the **Use your current Windows color scheme** option.

You will also need to download and install the Microsoft® .NET Framework version 3.5 (which includes the Microsoft AJAX extensions) to complete parts of this lab exercise. It is available from the link below.

The .NET Framework 3.5:
http://www.microsoft.com/downloads/details.aspx?FamilyID=333325FD-AE52-4E35-B531-508D977D32A6&displaylang=en

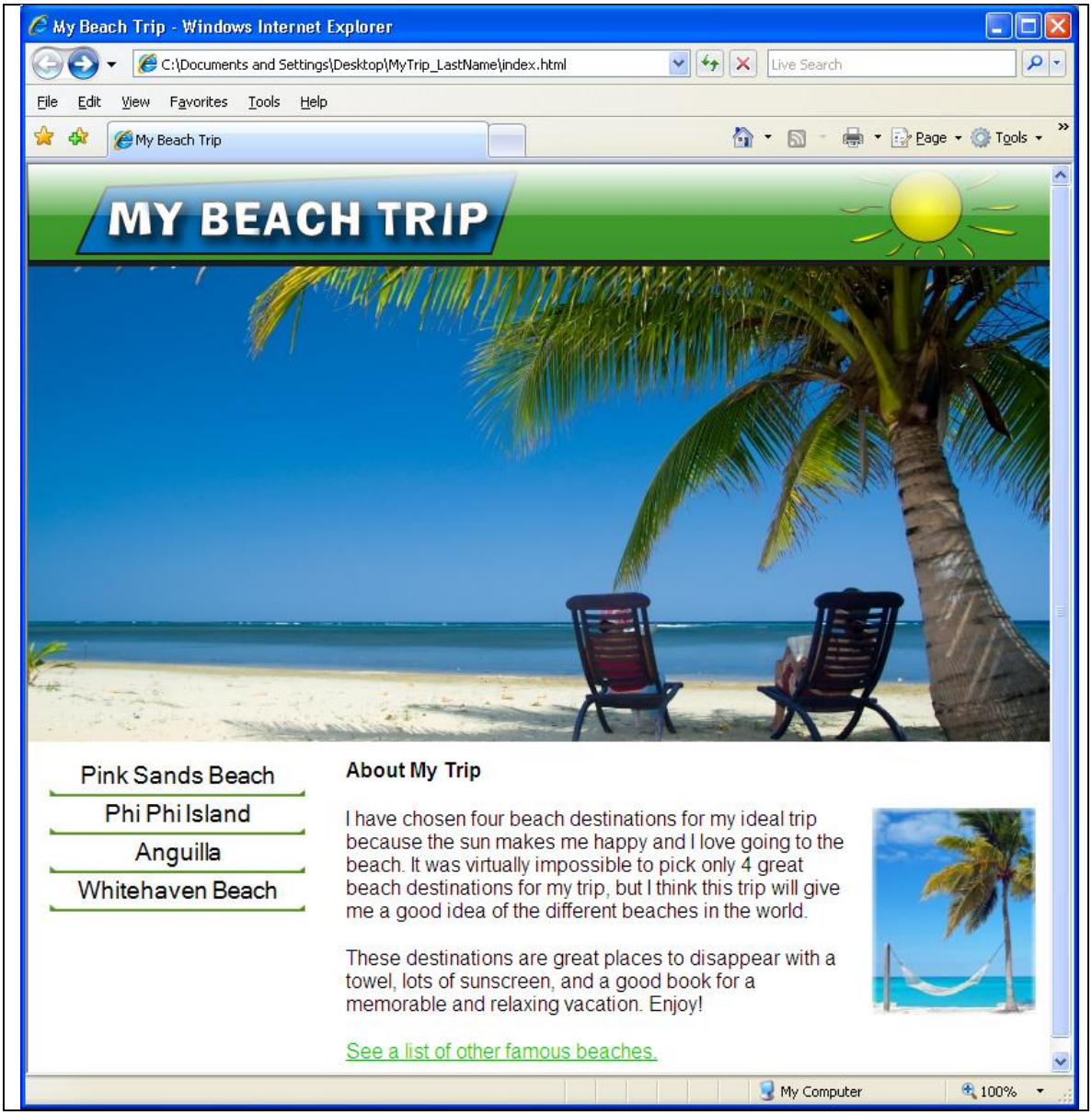
Scenario

The exercises in this tutorial will introduce you to Microsoft Expression® Web. This is the second in the series of **Beaches Around the World** tutorials. This tutorial is included in Module 5 of the semester-long curriculum, *Introduction to Web Design Using Microsoft Expression Studio.* This tutorial can stand as in independent learning tool or as the second in the 3-tutorial series. *Expression Design Tutorial: Creating Images with Expression Design (Beaches Around the World)* and *Expression Web Tutorial (Advanced): Beaches Around the World* are the other two tutorials.

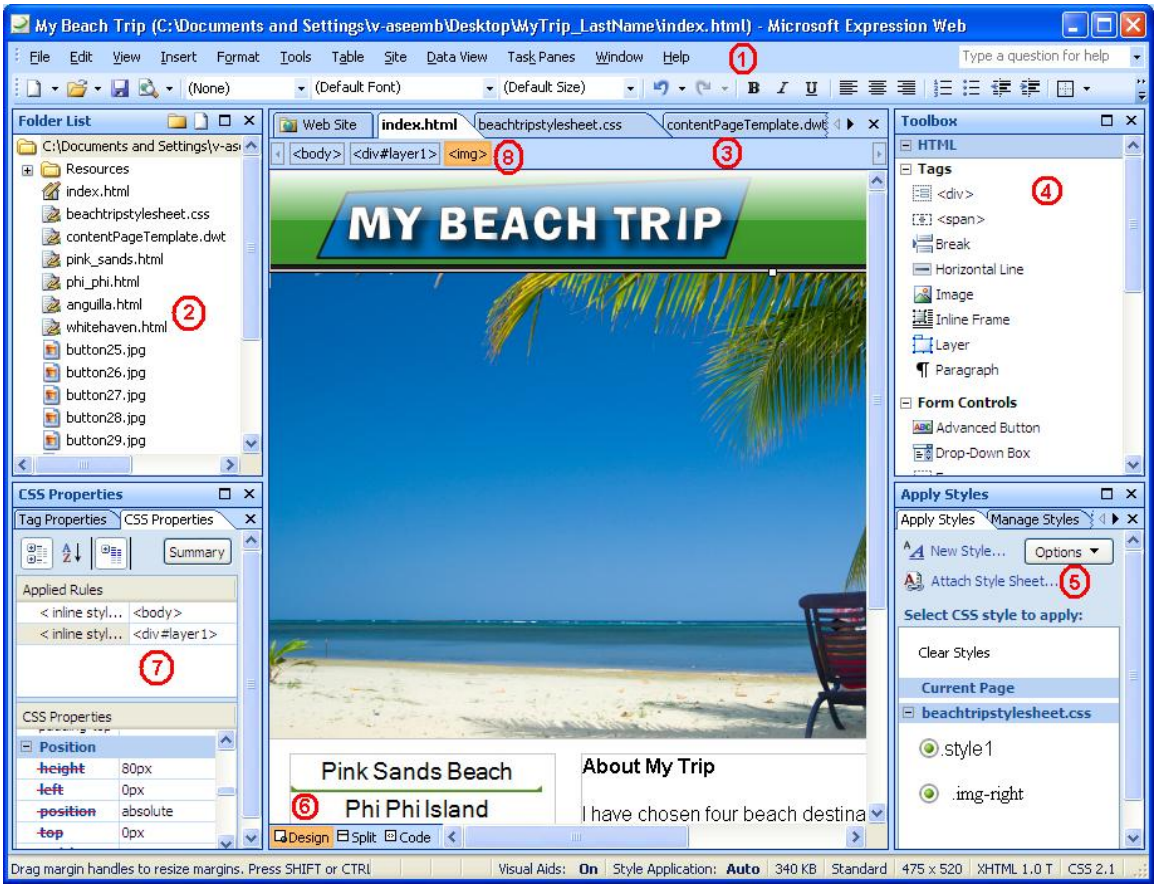
By the end of these exercises, you will have created a simple standards-compliant Web site on the topic of an around-the-world trip to famous beaches.

In order to create this site, you will learn to use the tools in Expression Web to edit Web documents in Design view and to create a site that is ready for publishing to the Web. In these lab exercises you will become familiar with Web-based technologies such as cascading style sheets (CSS), HTML, and Dynamic Web Templates.

Below is a sneak peek of the “My Beach Trip” Web site that you will create with this tutorial.


My Beach Trip - Windows Internet Explorer
C:\Documents and Settings\Desktop\MyTrip_LastName\index.html
Live Search
File Edit View Favorites Tools Help
My Beach Trip
Page Tools
MY BEACH TRIP
Pink Sands Beach
Phi Phi Island
Anguilla
Whitehaven Beach
About My Trip
I have chosen four beach destinations for my ideal trip because the sun makes me happy and I love going to the beach. It was virtually impossible to pick only 4 great beach destinations for my trip, but I think this trip will give me a good idea of the different beaches in the world.
These destinations are great places to disappear with a towel, lots of sunscreen, and a good book for a memorable and relaxing vacation. Enjoy!
See a list of other famous beaches.
My Computer
100%

The Microsoft® Expression® Web Workspace



1. Common Toolbar
2. Folder List
3. File Tabs
4. Toolbox
5. Style and Layer Task Panes
6. View Tabs
7. Tag and CSS Property Task Panes
8. Bread Crumb Trail

Exercises

EXERCISE 1 - Creating a New Web site

EXERCISE 2 - Creating Page Layouts with Layers

EXERCISE 3 - Styling Your Web Site Using CSS

EXERCISE 4 – Creating More Pages

EXERCISE 5 - Adding Navigation Controls to Your Site

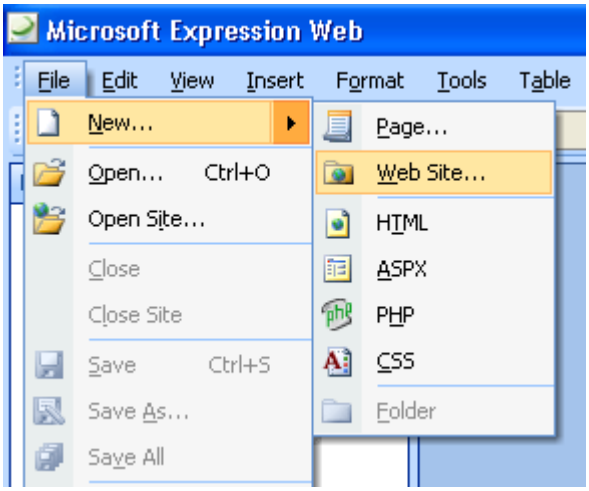
Exercise 1: Creating a New Web Site

Scenario: You will create a new, empty Web site and a blank HTML page, and change its properties.

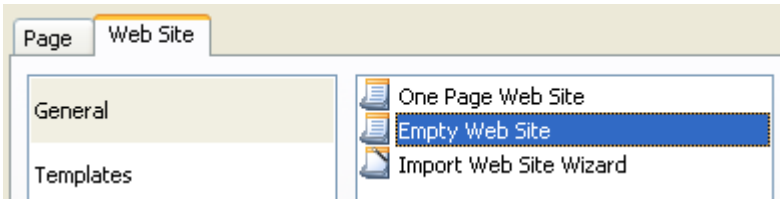
Task 1: Create a new empty Web site

Create the basic framework for your new Web site structure.

1. Click **Start**, point to **All Programs**, point to **Microsoft Expression**, and then click **Microsoft Expression Web**.
2. On the **File** menu, point to **New**, and then click **Web Site**.



3. In the **New** dialog box, on the **Web Site** tab, click **General**, and then click **Empty Web Site**.



4. Click **Browse** to specify the location of the new Web site and click **Open**.
5. To specify a name for the Web site, highlight the automatically generated name at the end of the path and enter a new name to replace it.

   For this example, call this site **MyTrip_*LastName***. (Replace "*LastName*" with your last name.)
6. Click **OK** to create and save the Web site.

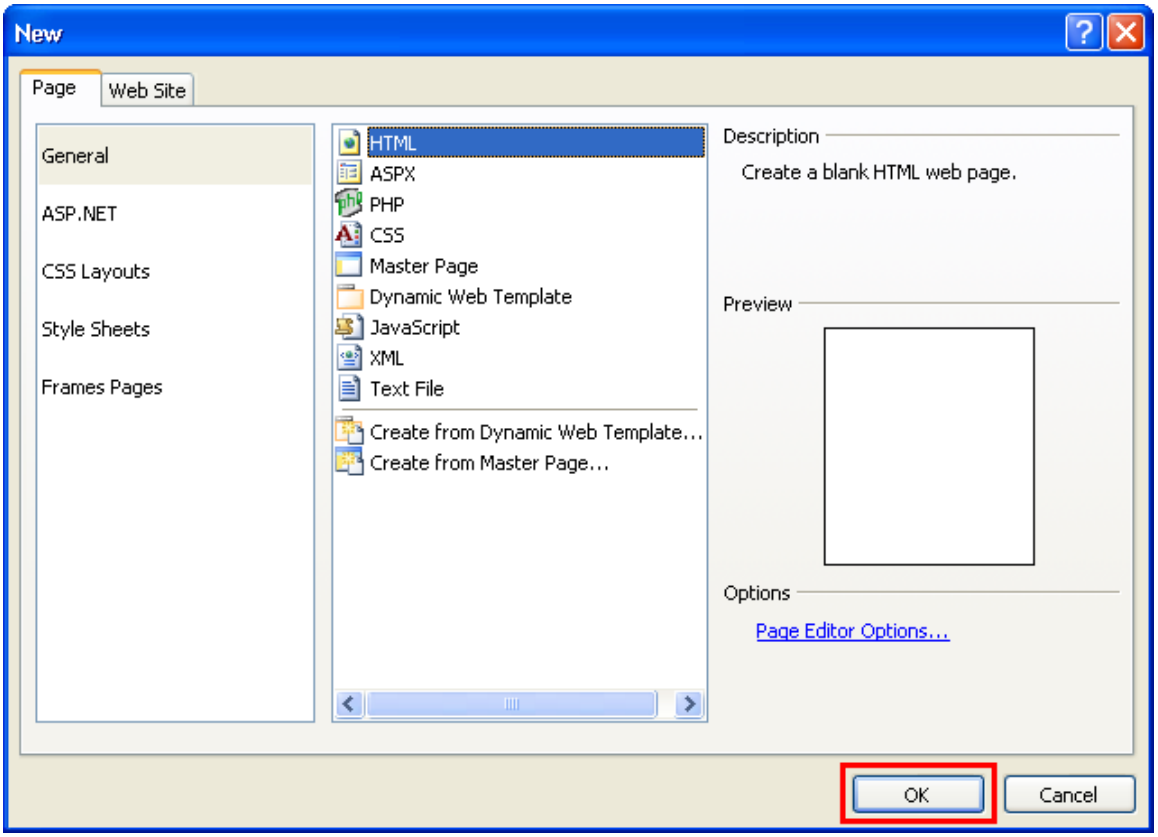
7. Using **Windows Explorer**, move the **Resources** folder from the **Expression Web Quick Start Tutorial Beaches Around the World** folder to the folder that was created for this new Web site.

   You will find the Web site folder in the location that was chosen in step 4.

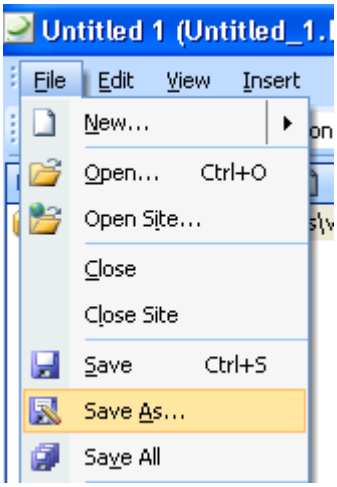
Task 2: Create a new HTML page

Create the HTML page that will be the home page of the Web site and set the page properties.

1. On the **File** menu, point to **New**, and then click **Page**.
2. In the **New** dialog box, click **General**, then click **HTML** and click **OK**.



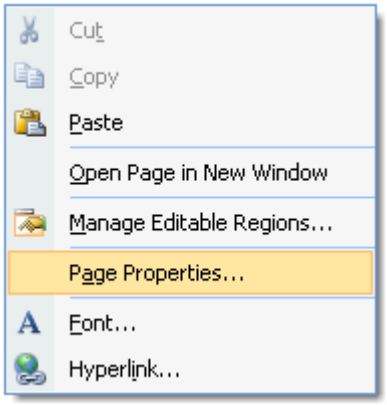
3. On the **File** menu, click **Save As**.



4. In the **Save As** dialog box, in the **File name** box, type **index.html** and then click **Save**.

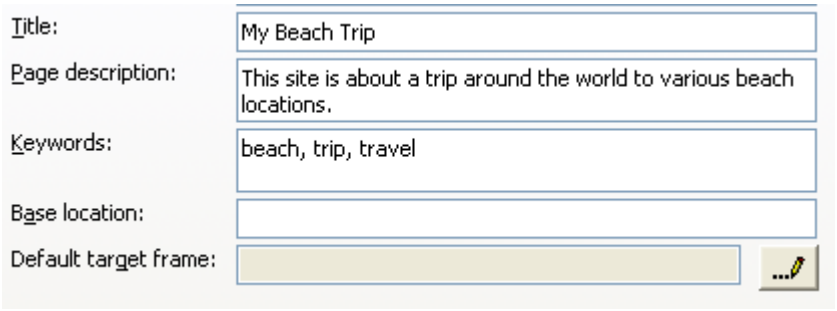
   The page is named “index.html” because most Web servers will recognize this file name as the home page.

5. Right-click anywhere on the blank page and select **Page Properties**.



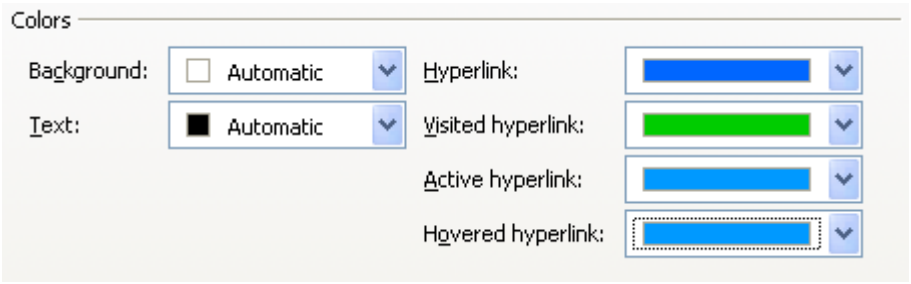
6. Under the **General** tab, specify the values in the following table. This will help users and search engines know the topic of the page.

Property	Value
Title	**My Beach Trip**
Page Description	**This site is about a trip around the world to various beach locations.**
Keywords	**beach, trip, travel**



7. Under the **Formatting** tab, specify the colors in the following table. This will change the color of all links on the page.

Property	Value
Hyperlink	**Blue**
Visited hyperlink	**Green**
Active hyperlink	**Light Blue**
Hovered hyperlink	**Light Blue**



8. Under the **Advanced** tab, set all of the margins to **0**. This will get rid of the default space that creates a small margin around the edge of the Web page when displayed in a browser.

9. Click **OK** to close the **Page Properties** dialog.

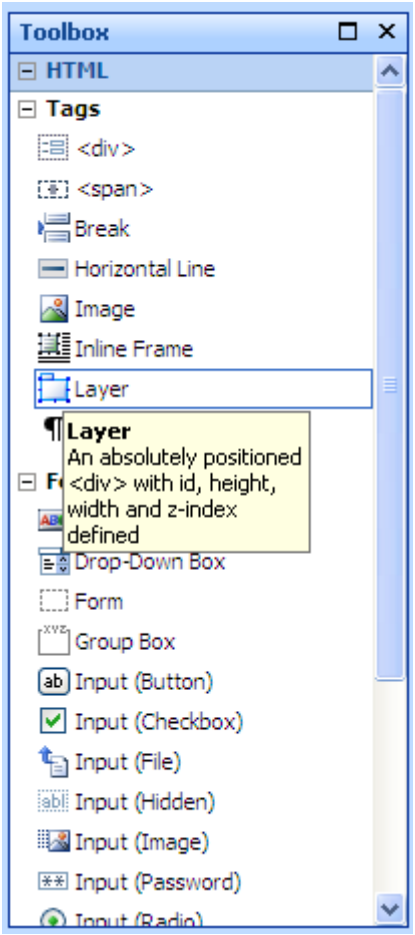
Exercise 2: Creating Page Layouts with Layers

Scenario: You will layout your page using layers and CSS Properties. You will then add images and text into those layers.

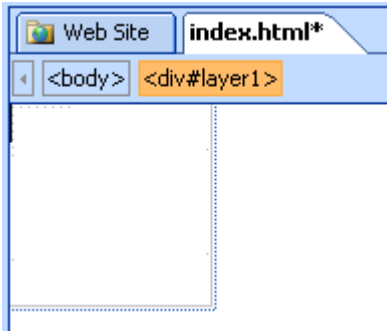
Task 1: Create a layer and add an image

Create a layer using the toolbox and then insert the header image into the layer.

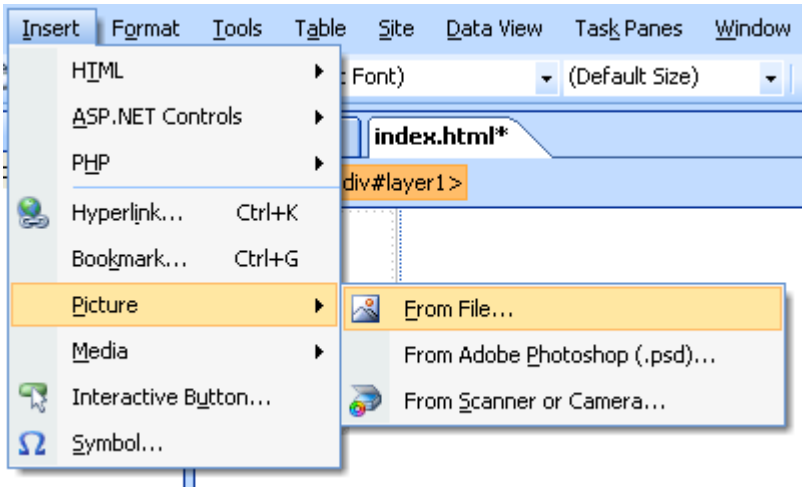
1. In the **Toolbox**, click **Layer** and drag it onto the page.



2. Click inside the new layer to place the cursor within the layer.

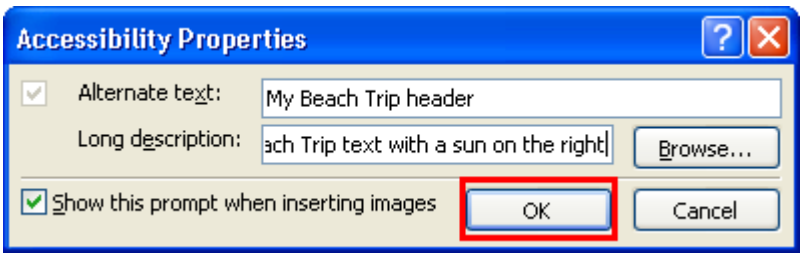


3. On the **Insert** menu, point to **Picture** and click **From File**.



4. In the **Picture** dialog box, navigate to the **Resources** folder in your Web site and select **beachHeader_final.png**.
5. Click **Insert** to add the picture to your site.
6. In the **Accessibility Properties** dialog, specify the values from the following table and click **OK**. This will help users and search engines identify the subject of the picture.

Property	Value
Alternate text	**My Beach Trip header**
Long description	**My Beach Trip text with a sun on the right**

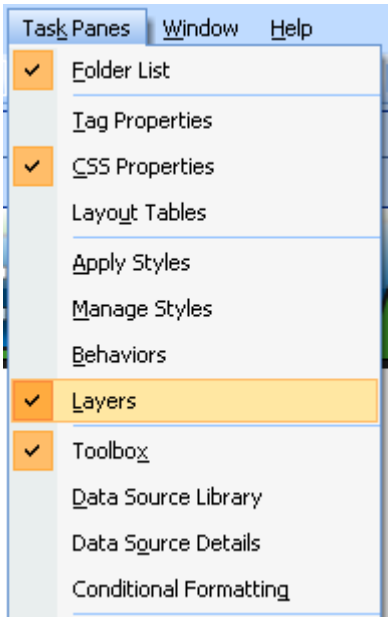


7. On the **File** menu, click **Save**.

Task 2: Make the layer fit the image

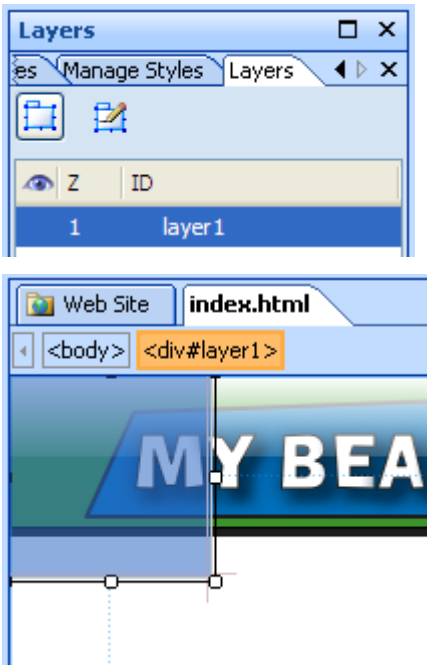
Make the layer fit the image using CSS Properties.

1. On the **Task Panes** menu, ensure **Layers** is checked.



2. Select the **Layers** tab from the bottom right task pane. You may need to click the right arrow if the **Layers** tab is not visible.
3. Click **layer 1** on the **Layers** task pane.

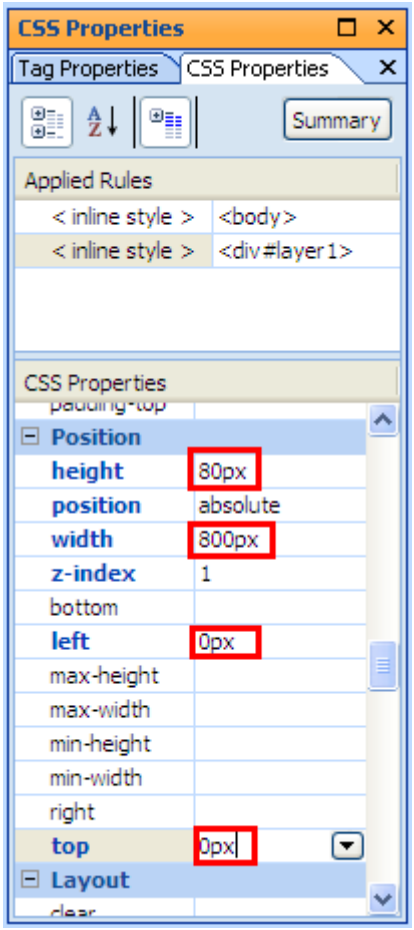
   The layer should be highlighted in blue on the workspace.



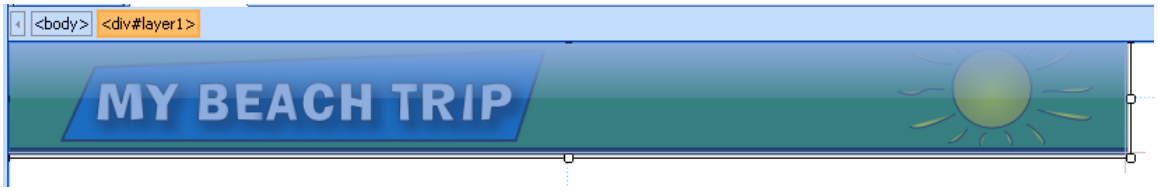
4. With the layer highlighted, click the **CSS Properties** tab and specify the values in the following table. This will make your layer fit the header image perfectly.

Property	Value
height	80px
width	800px

Property	Value
left	0px
top	0px



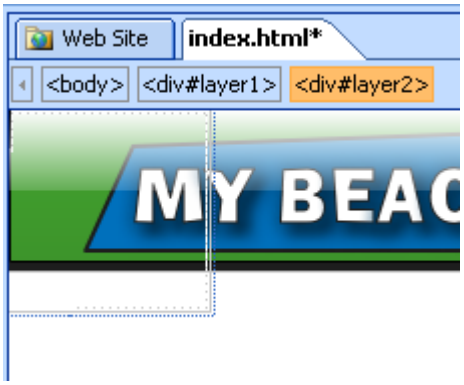
5. On the **File** menu, click **Save**.



Task 3: Add another layer and hero image

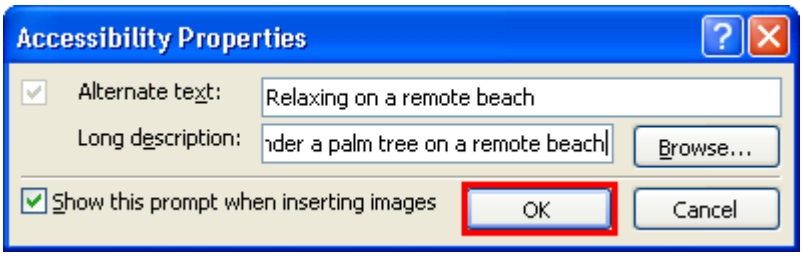
Use the toolbox to add another layer and will insert a hero image into that layer.

1. In the **Toolbox**, double click **Layer**.
2. Click inside the new layer to place the cursor within the layer.

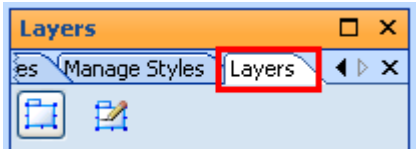


3. On the **Insert** menu, point to **Picture** and click **From File**.
4. In the **Picture** dialog box, navigate to the **Resources** folder in your Web site and select **beach_hero.jpg**.
5. Click **Insert** to add the picture to your site.
6. In the **Accessibility Properties** dialog, specify the values from the following table and click **OK**.

Property	Value
Alternate text	**Relaxing on a remote beach**
Long description	**Relaxing under a palm tree on a remote beach**

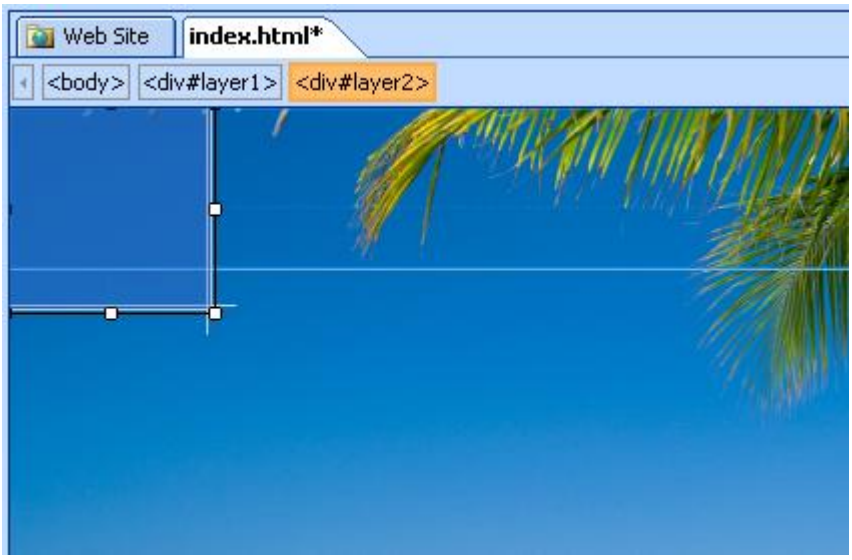


7. Select the **Layers** tab from the bottom-right task pane.



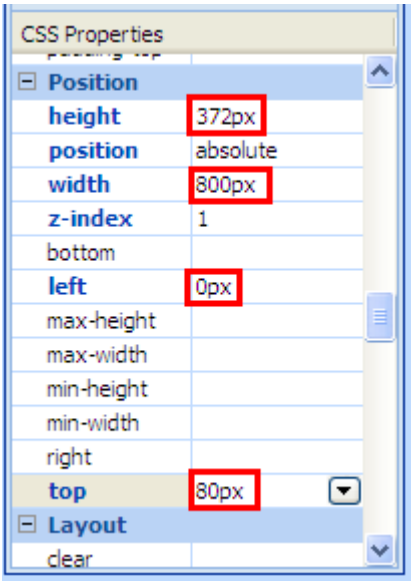
8. Click **layer 2** on the **Layers** task pane.

   The layer should be highlighted in blue on the workspace.

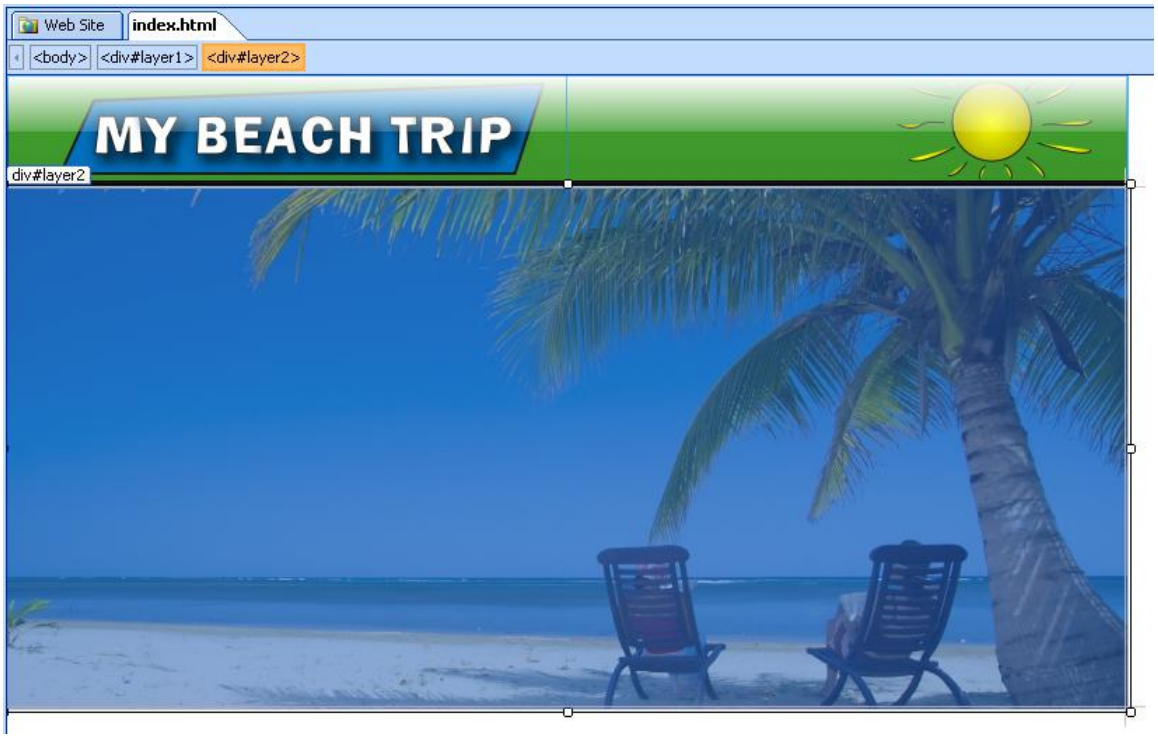


9. With the layer highlighted, click the **CSS Properties** tab and specify the values in the following table. This will make your layer fit the header image perfectly.

Property	Value
height	**372px**
width	**800px**
left	**0px**
top	**80px**



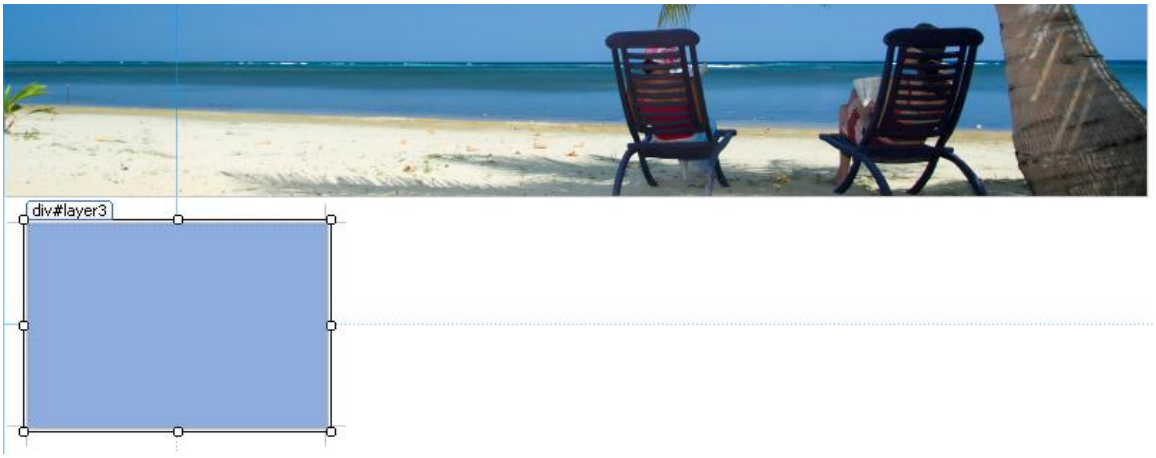
10. On the **File** menu, click **Save**.



Task 4: Add text to a layer

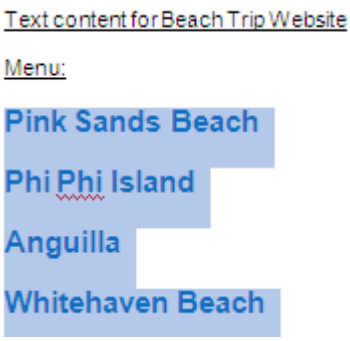
You will add two more layers to contain the Web site's navigation links and the home page text content.

1. In the **Toolbox**, click **Layer** and drag it onto the page.
2. Position the layer below the left side of the hero image and make it a bit bigger. Use the following screenshot as a guide.



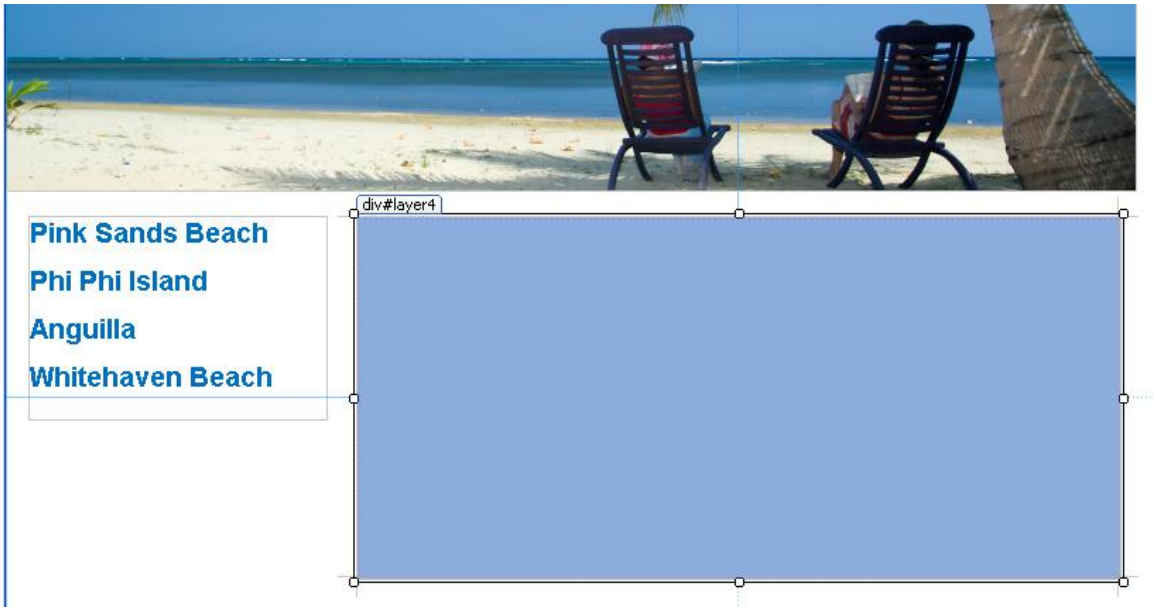
3. Minimize Expression Web and navigate to the **Resources** folder using Windows Explorer.
4. Open the Word file named **Text content for Beach Trip Web Site**.

5. Copy the four lines of text under the word **Menu** from the Word document.



6. Maximize Expression Web and click inside **layer 3** (the layer you just created) to place your cursor inside the layer.
7. Paste the text into this layer.

8. Add another layer to the page using the **Toolbox**.
9. Position the layer next to **layer 3** and make it wider. Use the following screenshot as a guide.



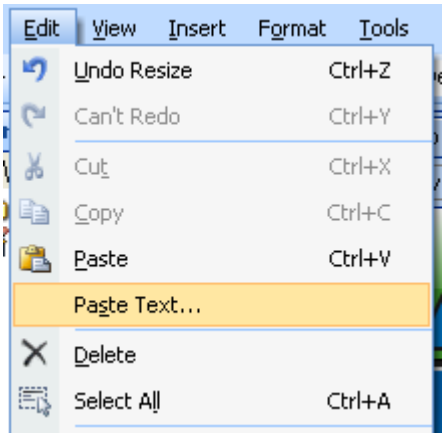
10. Minimize Expression Web and maximize the Word file named **Text content for Beach Trip Web Site**.
11. Copy the paragraphs labeled **Page 1 text** and switch back to Expression Web.

Page 1 text:

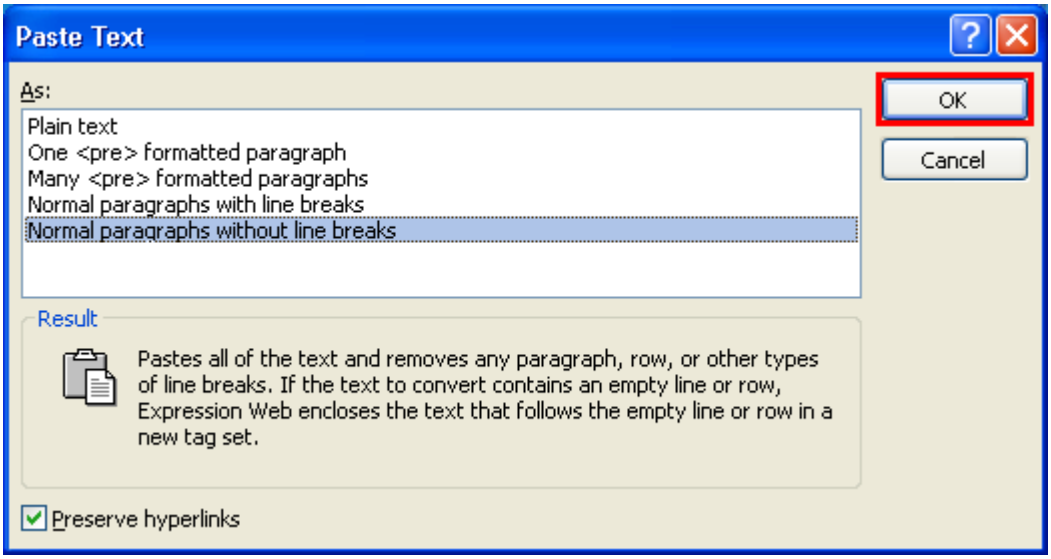
I have chosen four beach destinations for my ideal trip because the sun makes me happy and I love going to the beach. It was virtually impossible to pick only 4 great beach destinations for my trip, but I think this trip will give me a good idea of the different beaches in the world.

These destinations are great places to disappear with a towel, lots of sunscreen, and a good book for a memorable and relaxing vacation. Enjoy!

12. Click to place your cursor in **layer 4**.
13. On the **Edit** menu, click **Paste Text**.

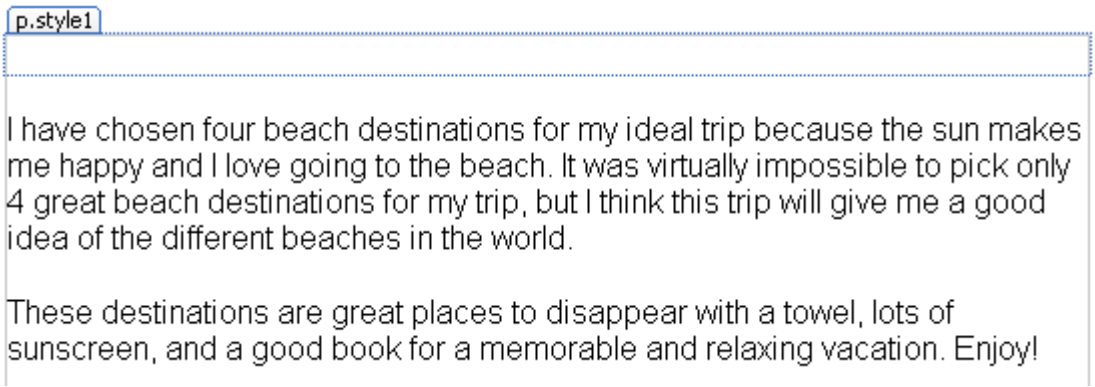


14. In the **Paste Text** dialog, select **Normal paragraphs without line breaks** and click **OK.**



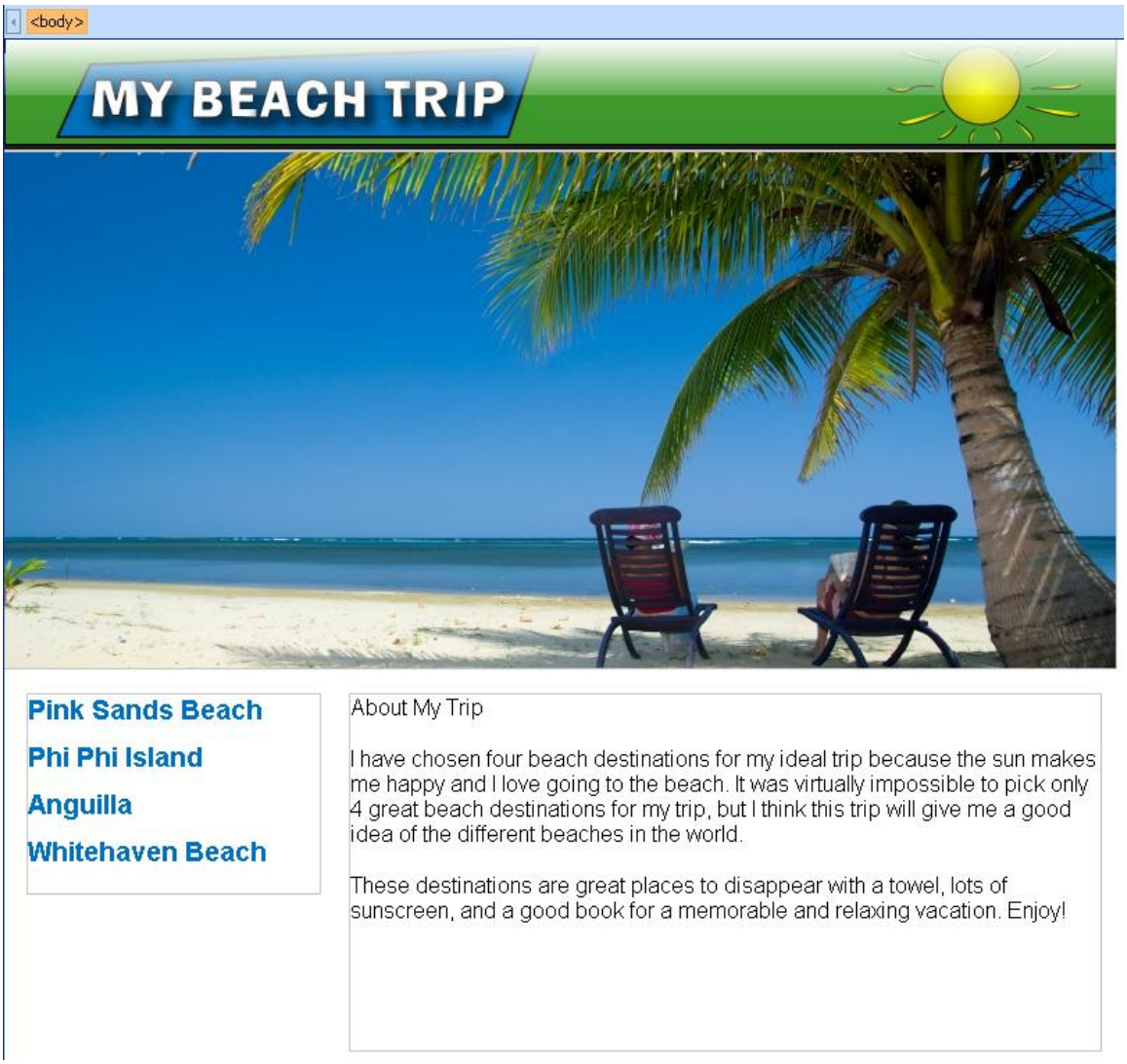
15. Highlight the text that you just pasted and select **Arial, Helvetica, sans-serif** from the font dropdown.

16. Click in the top-left corner of **layer 4** and move the cursor to the top left using the arrows on your keyboard.
17. Press the **Return/Enter** key on your keyboard.
18. Press the **Up Arrow** key on your keyboard to place the cursor on the top line of the layer.



19. Type **About My Trip**.

20. On the **File** menu, click **Save**.



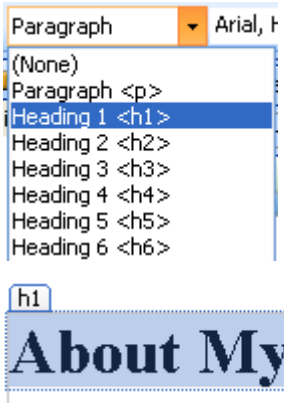
Exercise 3: Styling Your Web Site Using CSS

Scenario: Use cascading style sheets (CSS) to format headline styles, position layers, and align images. At the end of the exercise you will preview the page in a browser.

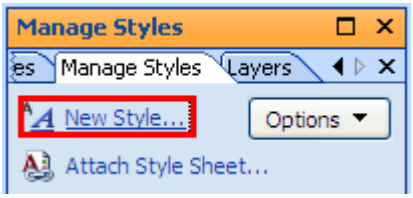
Task 1: Format the headline style

Format the **h1** headline style using CSS.

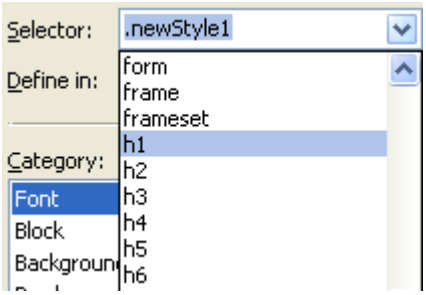
1. Click and drag to select the **About My Trip** headline text.
2. Select **Heading 1 <h1>** from the **Style** dropdown menu. The text should automatically resize and become bold.



3. Click **New Style** in the **Apply Styles** or **Manage Styles** task panes (lower-right corner.)

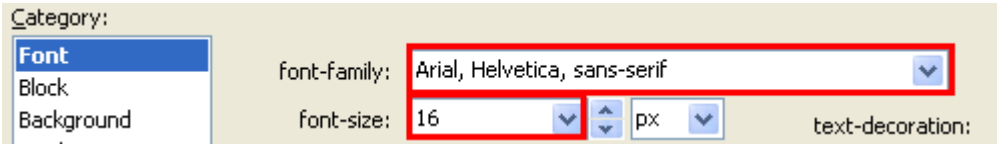


4. In the **New Style** dialog, select **h1** from the **Selector** dropdown menu.



5. With the **Font** category open, specify the values from the following table.

Property	Value
font-family	**Arial, Helvetica, sans-serif**
font-size	**16px**



6. Click **OK** to save the style. Your header should automatically change to reflect the new header style.
7. On the **File** menu, click **Save**.

Task 2: Position layers using CSS

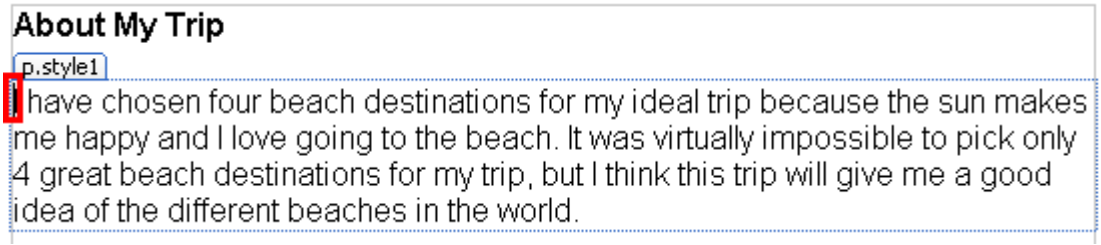
Position layers 3 and 4 using the **CSS properties** task pane so they are aligned on the vertical axis.

1. Select **layer 3** using the **Layers** task pane or by clicking it in the workspace.
2. With the layer highlighted, click the **CSS Properties** tab and enter **465px** in the **Top** field.
3. Select **layer 4** and repeat step 2. This will align the tops of both layers.
4. On the **File** menu, click **Save**.

Task 3: Use CSS to align an image

Add an image to layer 4 and align it by creating a CSS style.

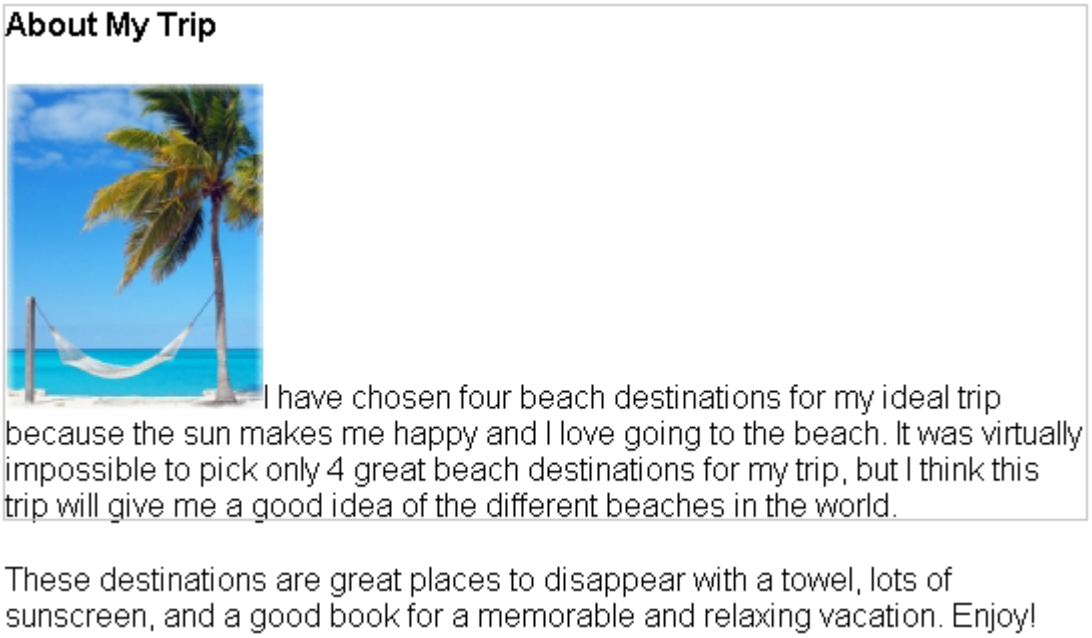
1. Click to place your cursor at the beginning of the first paragraph in **layer 4**, just before the words "I have chosen four beach…" You may need to use the arrow keys to accurately position the cursor exactly at the beginning of the text.



2. On the **Insert** menu, point to **Picture** and click **From File**.
3. Select the image called **hammock.jpg** and click **OK**.

4. In the **Accessibility Properties** dialog, specify the values from the following table and click **OK**.

Property	Value
Alternate text	**Hammock on the beach**
Long description	**A hammock and palm tree in the Bahamas**

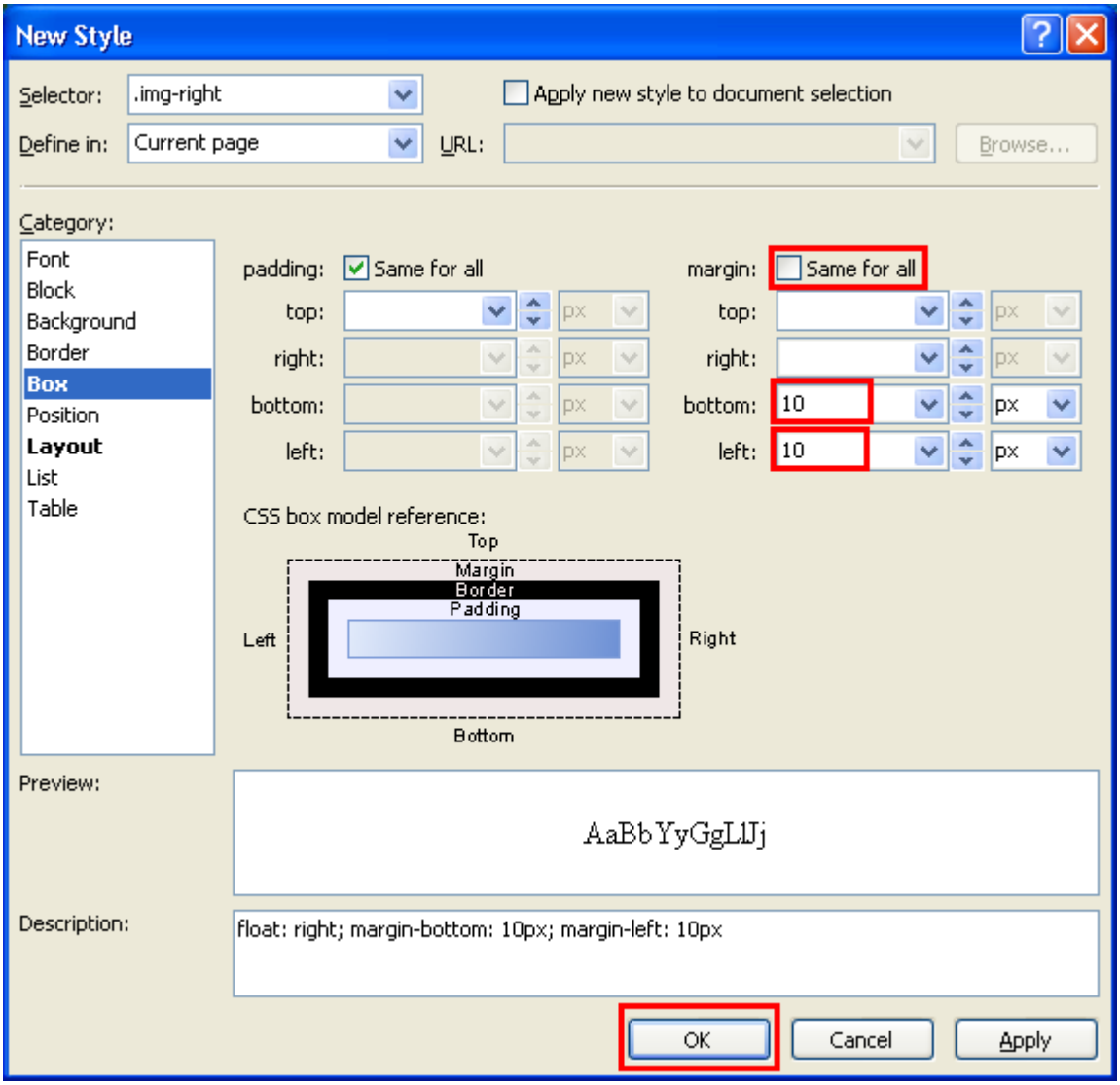


5. Click **New Style** in the **Apply Styles** or **Manage Styles** task panes (lower-right corner.)
6. In the **New Style** dialog, enter **.img-right** in the **Selector** field.

   Note: All class styles must begin with a dot or period.
7. Select the **Layout** category and set **Float** to **Right**.
8. Select the **Box** category and specify the values from the following table.

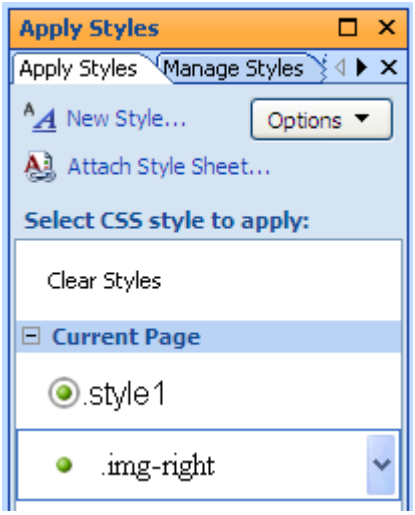
Property	Value
Margin: Same for all	**Unchecked**
Margin: bottom	**10px**
Margin: left	**10px**

9. Click **OK** to create the new style.



10. Click the small image of the hammock that you just inserted into **layer 4**.
11. In the **Apply Styles** task pane, click to select the **.img-right** style.

    The image should align to the right and the test should wrap around to the left with 10 pixels of margin on the left and bottom of the image.

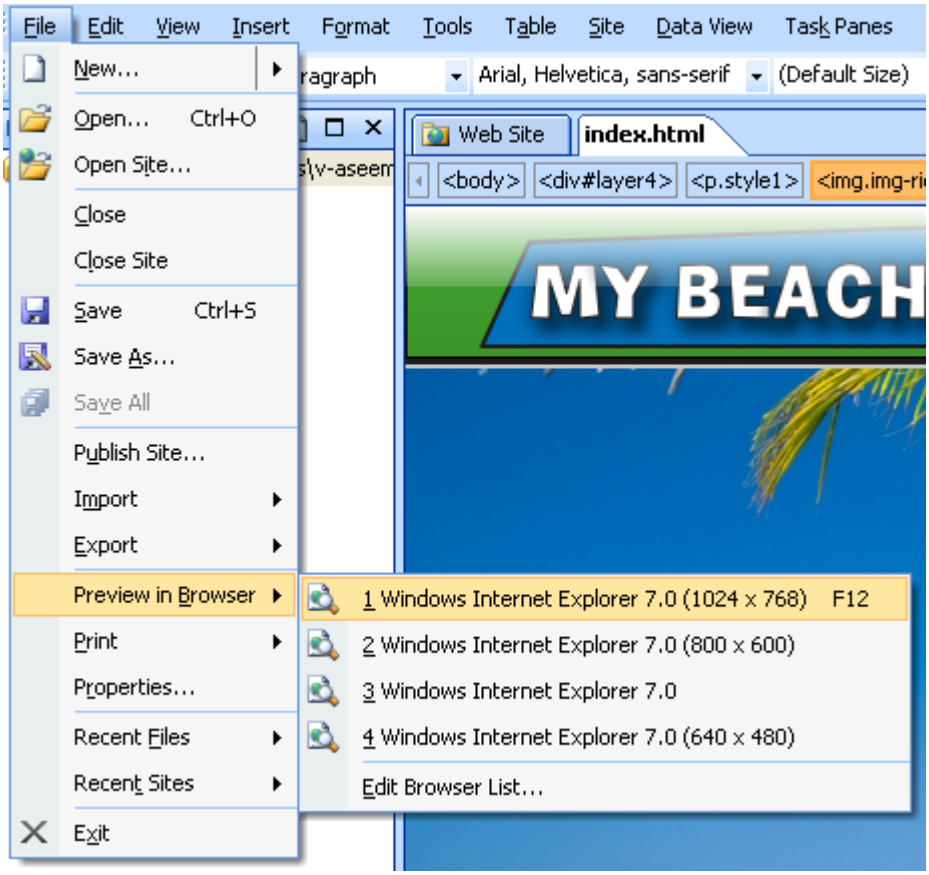


12. On the **File** menu, click **Save**.

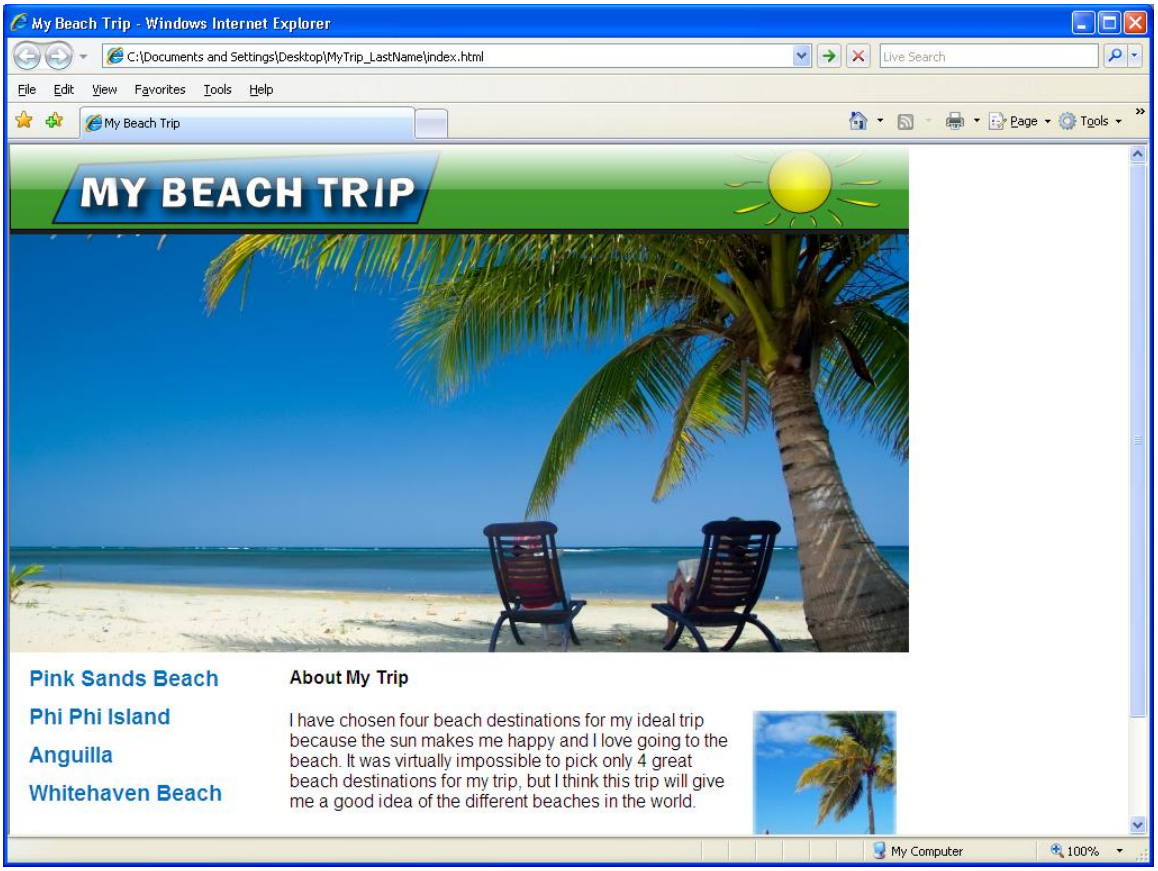
Task 4: Preview the Page in a Browser

Use a Web browser to preview the page and to see it as a visitor to the published site will see it.

1. On the **File** menu, click **Save**. You cannot preview an unsaved page.
2. On the **File** menu, point to **Preview in Browser** and click **Windows Internet Explorer 7.0 (1024 X 768)** (or whatever browser you have installed on your computer.)



3. Take a look at your page and close the browser window.



Exercise 4: Creating More Pages

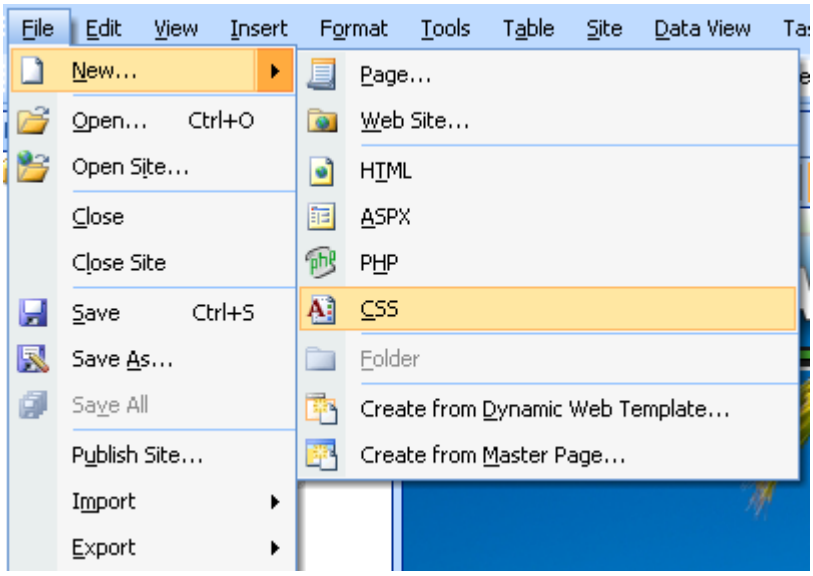
Scenario: Create the internal pages of your Web site using a Dynamic Web Template and style the pages using an external CSS file.

Task 1: Create an external style sheet

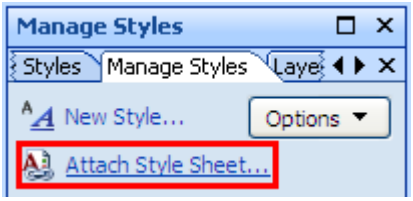
Create an external style sheet to easily apply the same styles across many pages.

1. On the **File** menu, point to **New** and click **CSS**.

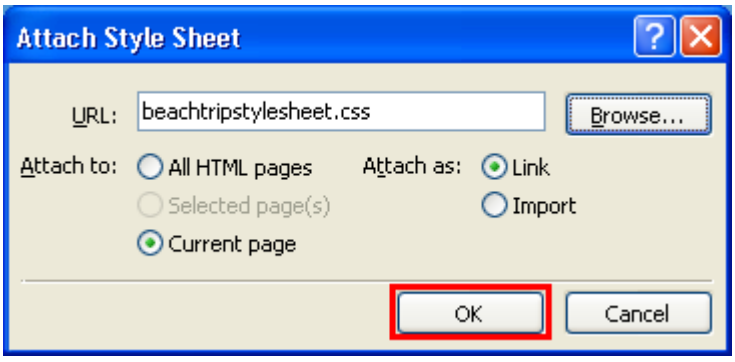
   A blank page will open. **DO NOT** add anything to the page.



2. On the **File** menu, click **Save**.
3. In the **Save As** dialog, enter **beachtripstylesheet.css** into the **File Name** field and click **Save**.
4. Click the **index.html** tab to go back to your home page.
5. Click **Attach Style Sheet** in the **Apply Styles** or **Manage Styles** task panes (lower-right corner.)

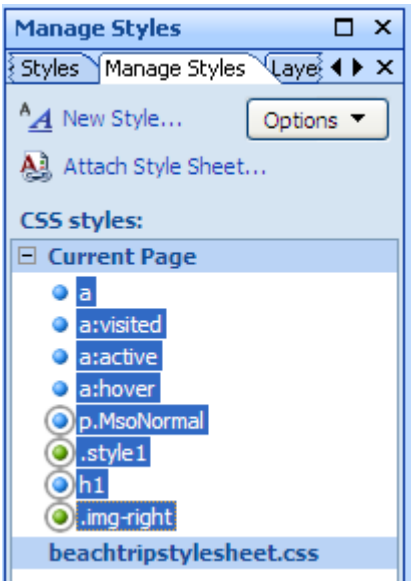


6. In the **Attach Style Sheet** dialog, click the **Browse** button.
7. In the **Select Style Sheet** dialog, select **beachtripstylesheet.css** from your Web site folder and click **Open**.
8. In the **Attach Style Sheet** dialog, click **OK** to attach the style sheet.



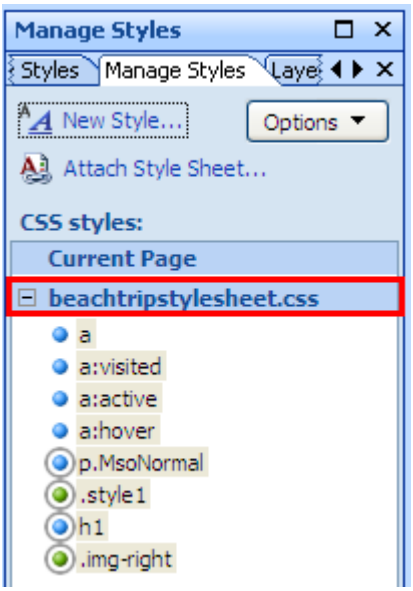
9. In the **Manage Styles** task pane, click the first style (**a**) and then click the last style (**.img-right**) while holding **Shift** on your keyboard.

   This should highlight all the styles in the **Current Page** category.

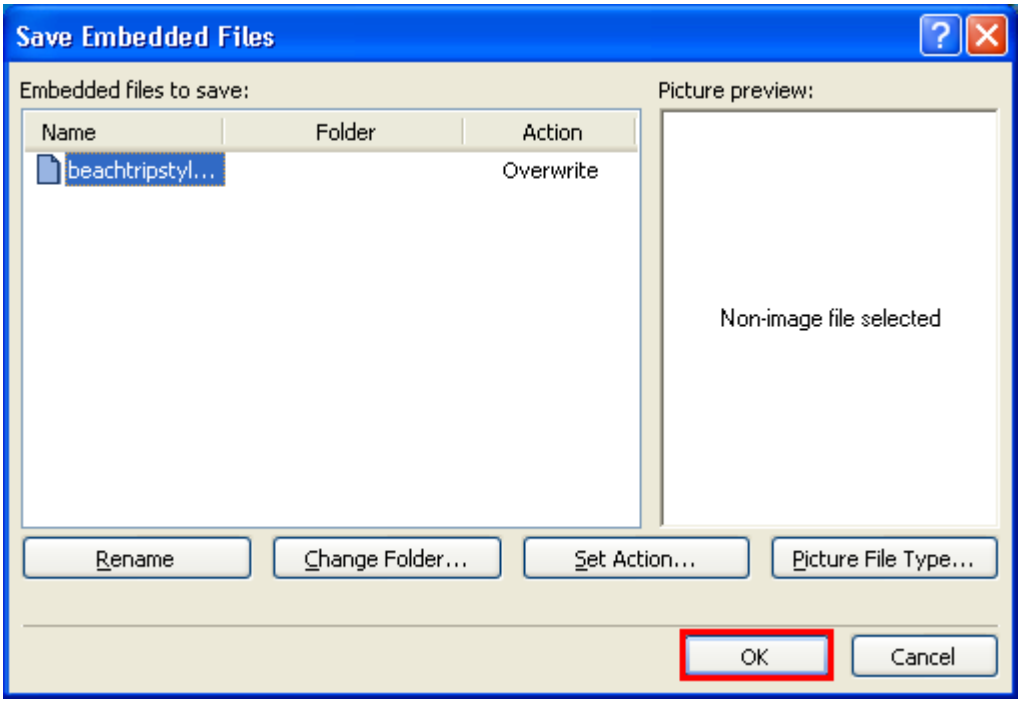


10. Drag all of the selected styles to the **beachtripstylesheet.css** category.

    This will move all of your styles from the home page into the external style sheet.



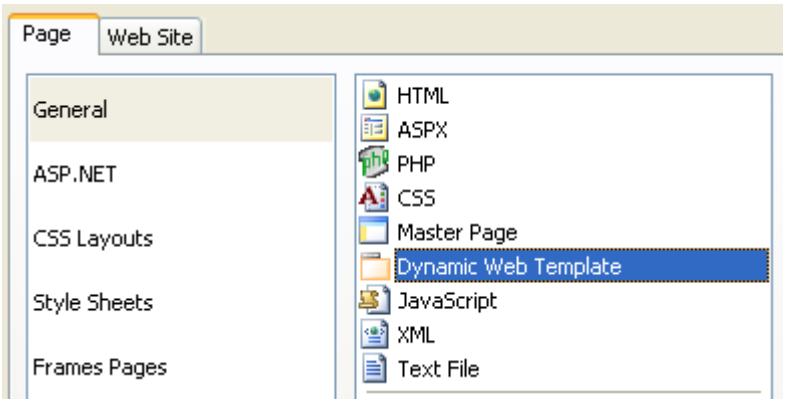
11. On the **File** menu, click **Save**.
12. In the **Save Embedded Files** dialog, click **OK**.



Task 2: Create a Dynamic Web Template

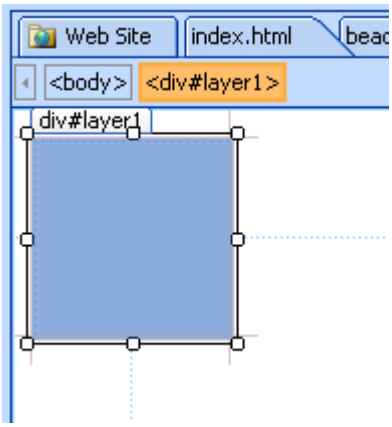
Create a Dynamic Web Template to apply the same layout across many pages.

1. On the **File** menu, point to **New** and click **Page**.
2. In the **New** dialog box, click **General** and then click **Dynamic Web Template**.



3. In the **Save As** dialog, enter **contentPageTemplate** in the **File Name** field and click **Save**.

   A file name extension, **.dwt**, will be added automatically when you save the file.
4. Click in the layer that is already on the page and press **Delete**.
5. In the **Toolbox**, click **Layer** and drag it onto the page.
6. Click the layer to highlight it.



7. With the layer highlighted, click the **CSS Properties** tab and specify the values in the following table.

Property	Value
height	**80px**
width	**800px**
left	**0px**
top	**0px**

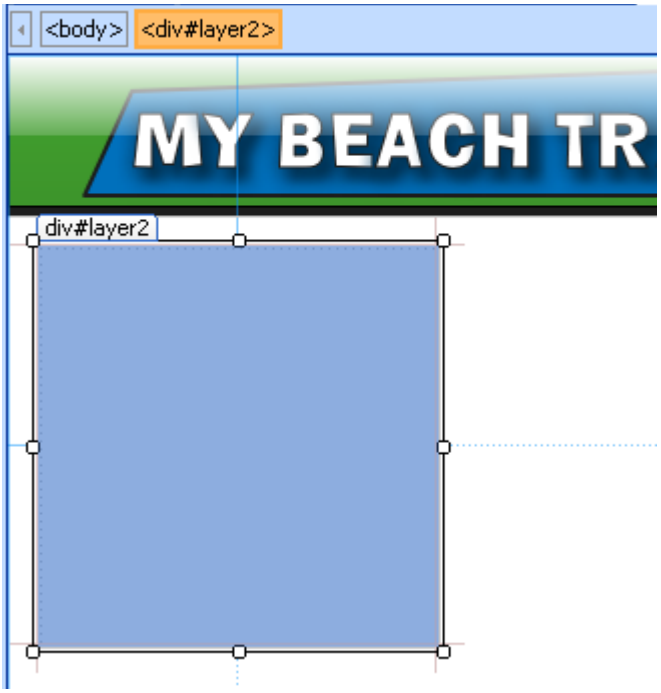
8. Click inside the new layer to place the cursor within the layer.
9. On the **Insert** menu, point to **Picture** and click **From File**.
10. In the **Picture** dialog box, navigate to the **Resources** folder in your Web site and select **beachHeader_final.png**.
11. Click **Insert** to add the picture to your site.
12. In the **Accessibility Properties** dialog, specify the values from the following table and click **OK**. This will help users and search engines know what the picture is.

Property	Value
Alternate text	**My Beach Trip header**
Long description	**My Beach Trip text with a sun on the right**

13. In the **Toolbox**, double click **Layer**. You should now have two layers on the page.
14. Click **layer 2** to highlight it.

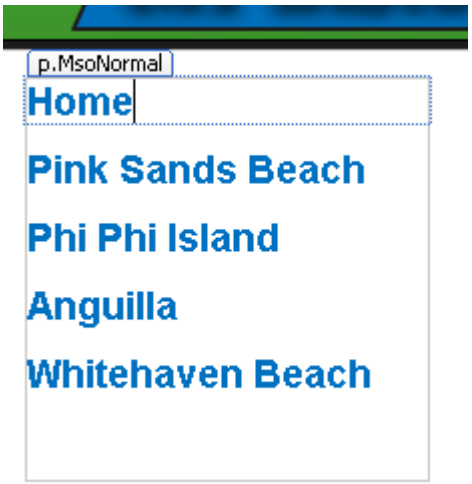
15. With the layer highlighted, click the **CSS Properties** tab and specify the values in the following table.

Property	Value
height	**200px**
width	**200px**
left	**15px**
top	**95px**



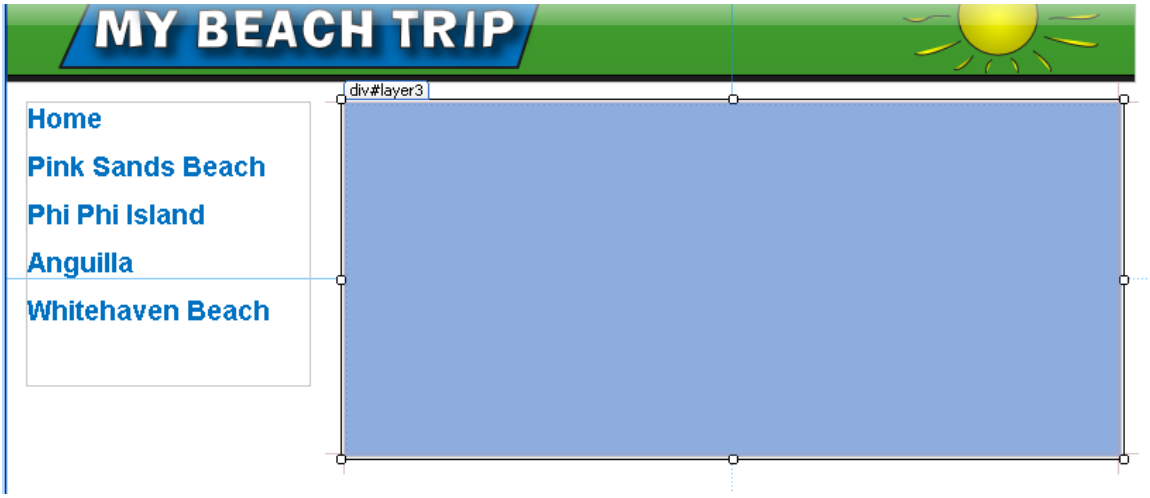
16. Navigate to your home page (**index.html**) using the **Folder List** or the page tabs.
17. Select and copy the four lines of text in **layer 3**.

18. Navigate back to your Dynamic Web Template (**contentPageTemplate.dwt**) and paste the text in **layer 2**.
19. Add the word **Home** on a new line at the top of the layer.

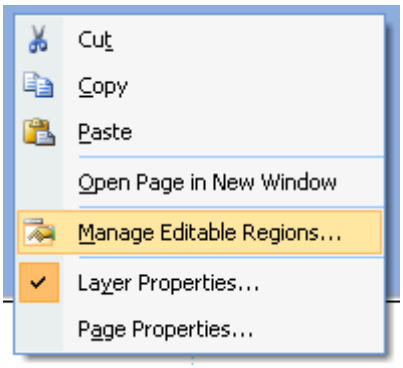


20. Add another layer to the Dynamic Web Template using the **Toolbox**.
21. With the layer highlighted, click the **CSS Properties** tab and specify the values in the following table.

Property	Value
height	250px
width	550px
left	240px
top	95px

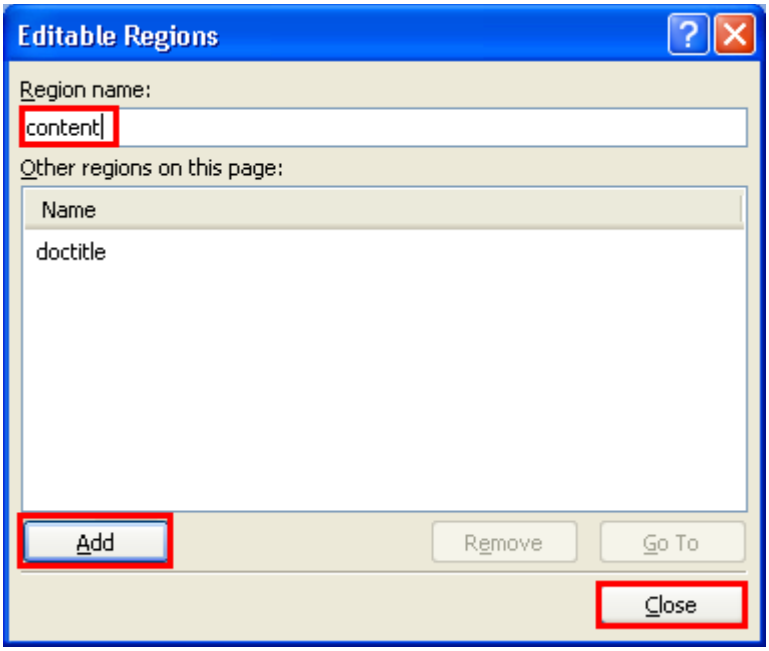


22. Right-click the new layer (**layer 3**) and select **Manage Editable Regions**.

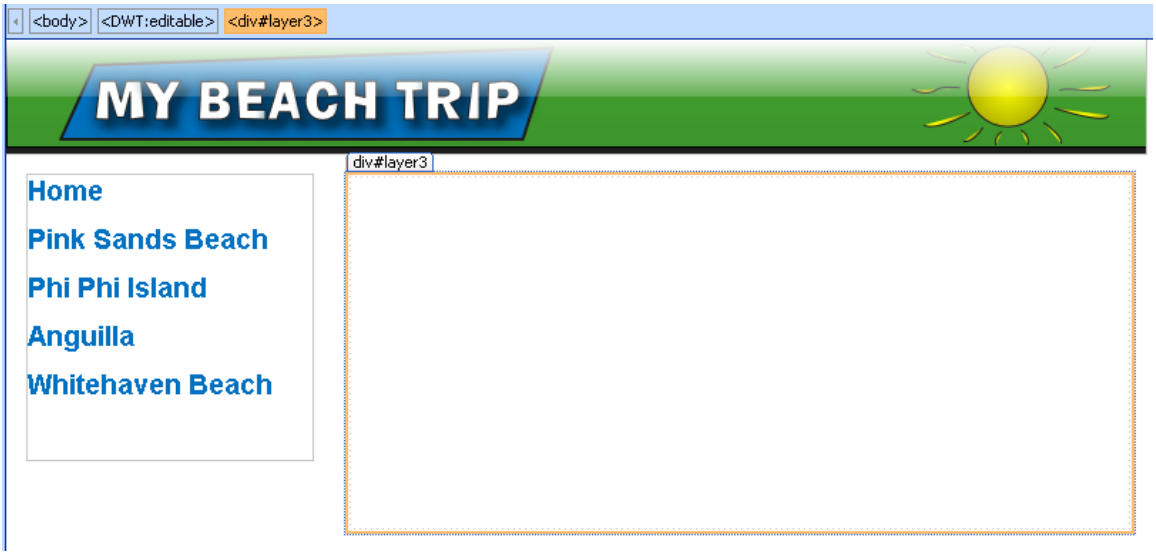


23. In the **Editable Regions** dialog box, enter **content** into the **Region name** field, click **Add**, and then click **Close**.

    This will allow you to edit this layer on pages that you create using the Dynamic Web Template.



24. On the **File** menu, click **Save**.



Task 3: Attach a style sheet to the Dynamic Web Template

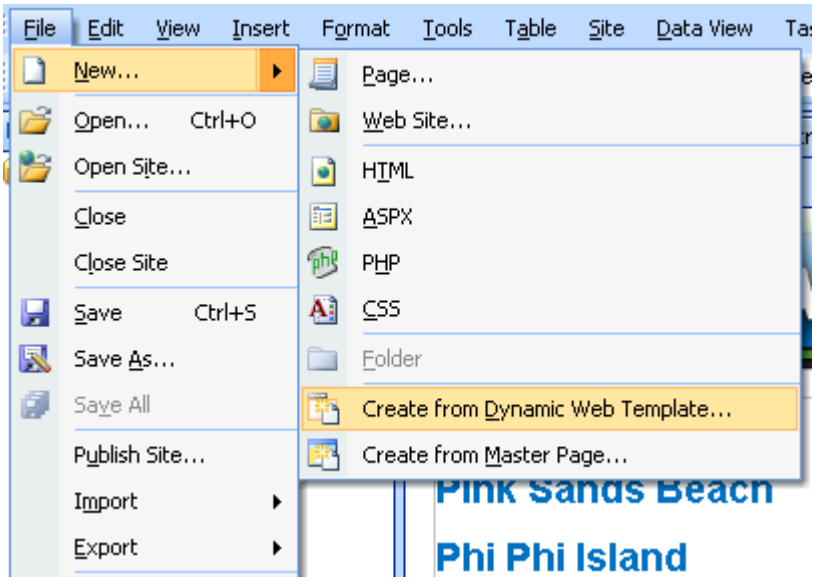
Attach an external style sheet to the Dynamic Web Template that was just created. This will allow all of your pages to have the same styles.

1. Open the Dynamic Web Template (**contentPageTemplate.dwt**) from the tabs at the top of the work area or from the **Folder List**.
2. Click **Attach Style Sheet** in the **Apply Styles** or **Manage Styles** task panes (lower-right corner.)
3. In the **Attach Style Sheet** dialog box, click the **Browse** button.
4. In the **Select Style Sheet** dialog box, select **beachtripstylesheet.css** from your Web site folder and click **Open**.
5. In the **Attach Style Sheet** dialog box, click **OK** to attach the style sheet.
6. On the **File** menu, click **Save**.

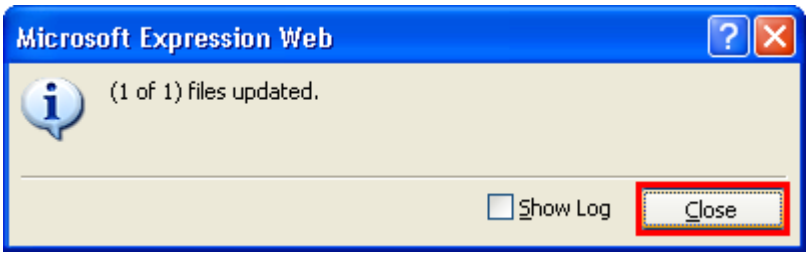
Task 4: Create internal pages using the Dynamic Web Template

Create four internal pages using the Dynamic Web Template that was just created.

1. On the **File** menu, point to **New** and click **Create from Dynamic Web Template**.



2. In the **Attach Dynamic Web Template** dialog box, select **contentPageTemplate.dwt** from your Web site folder and click **Open**.
3. Click **Close** on the **Microsoft Expression Web** dialog box.

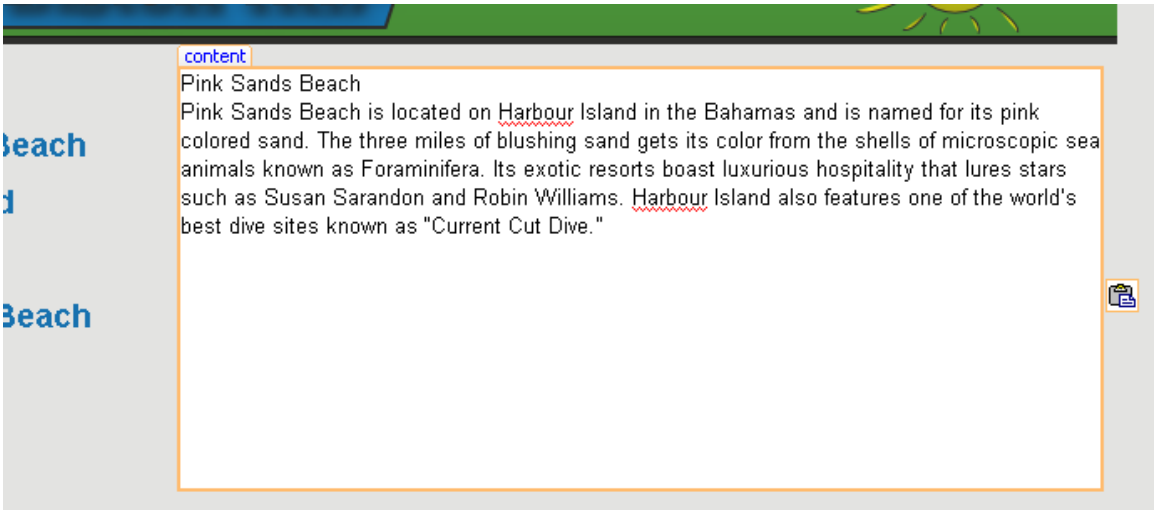


4. Open the Word file named **Text content for Beach Trip Web Site** from your resources folder.
5. Copy the text below the section labeled **page 2 text**.

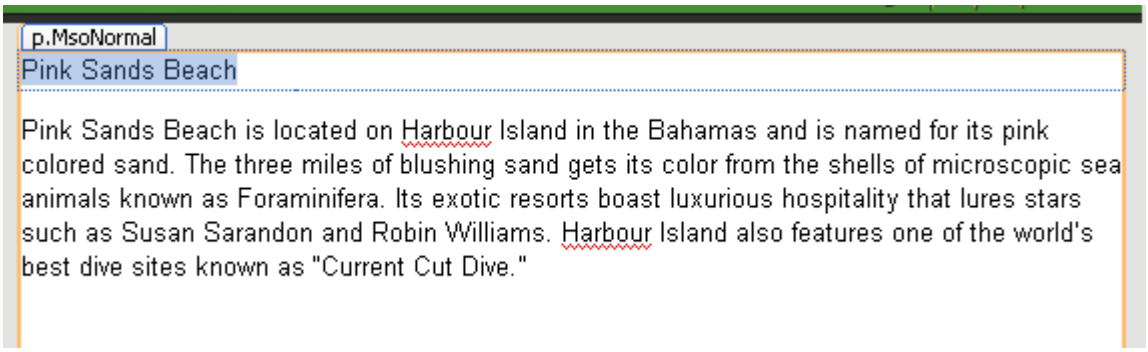
page 2 text:

Pink Sands Beach
Pink Sands Beach is located on Harbour Island in the Bahamas and is named for its pink colored sand. The three miles of blushing sand gets its color from the shells of microscopic sea animals known as Foraminifera. Its exotic resorts boast luxurious hospitality that lures stars such as Susan Sarandon and Robin Williams. Harbour Island also features one of the world's best dive sites known as "Current Cut Dive."

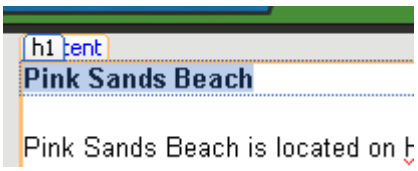
6. Navigate back to Expression Web and click inside **layer 3** on the new page to make the cursor appear.
7. Paste the text.



8. Place your cursor at the end of the first line in **layer 3** after the **h** in **beach**.
9. Press **Enter** on your keyboard. This will identify the top line as a new paragraph.
10. Highlight **Pink Sands Beach** on the top line.



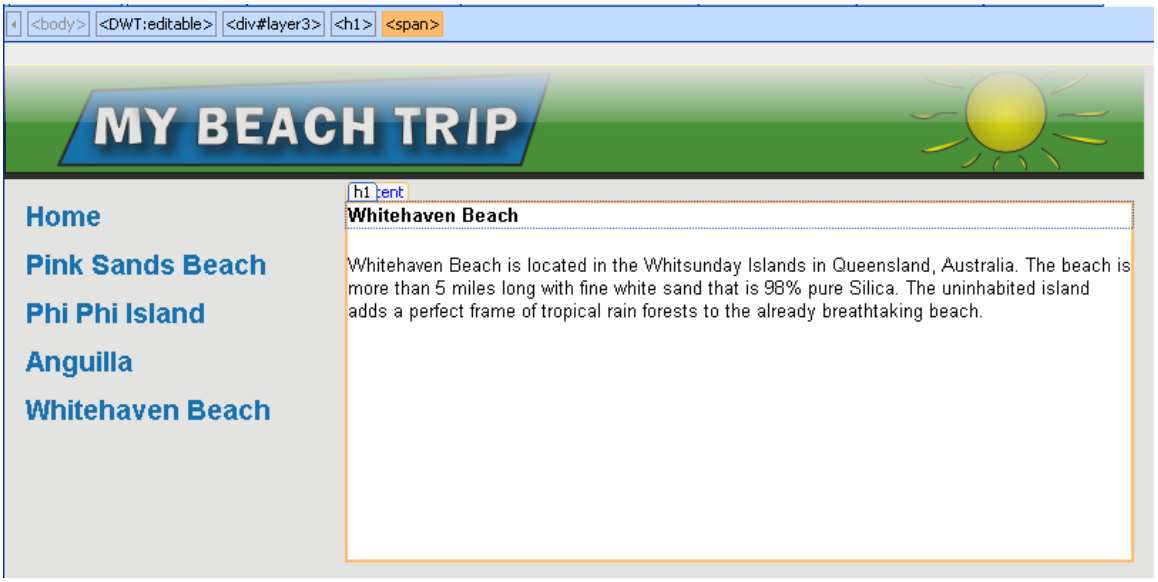
11. Select **Heading 1 <h1>** from the pull-down choices in the **Common Toolbar** at top.



12. On the **File** menu, click **Save**.
13. In the **Save As** dialog box, click **Change title**.
14. In the **Set Page Title** dialog box, enter **Pink Sands Beach** and click **OK**.

15. In the **Save As** dialog box, enter **pink_sands** into the **File name** field and click **Save**.

16. Repeat steps 1 through 15 three more times to create a new page for each of these beaches: Phi Phi Island, Anguilla, and Whitehaven Beach. Use the appropriate text from the **Text content for Beach Trip Web Site** Word document and save the page, using the appropriate name: **phi_phi**, **anguilla**, or **whitehaven**.



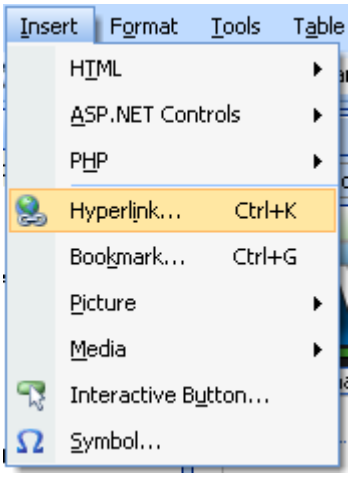
Exercise 5: Adding Navigation Controls to Your Site

Scenario: Add navigation to your Web site using links and interactive buttons.

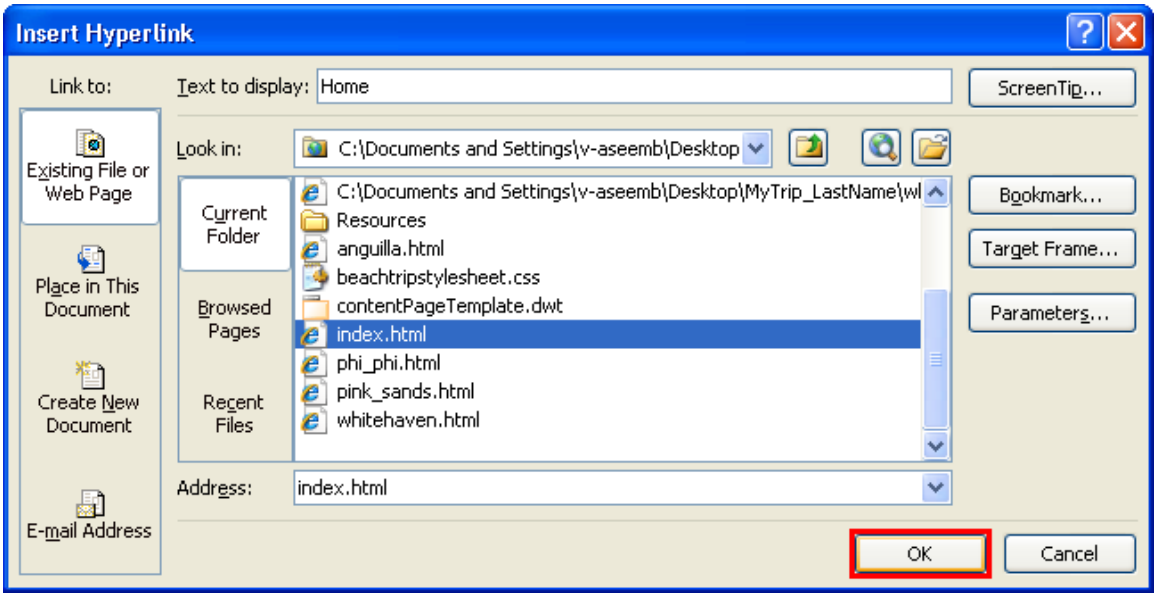
Task 1: Create internal links

You will make the internal links functional so users can navigate your Web site.

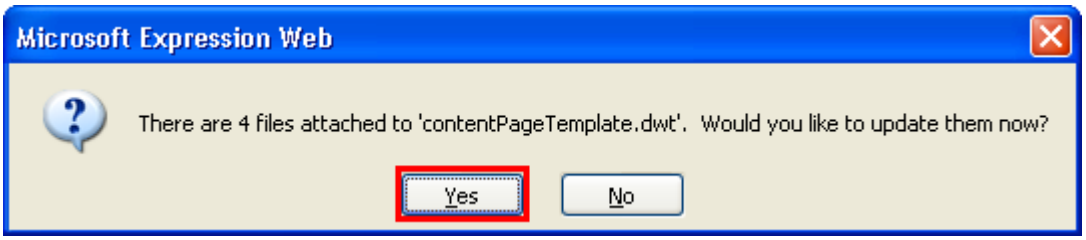
1. Open the Dynamic Web Template (**contentPageTemplate.dwt**) from the tabs at the top of the work area or from the **Folder List**.
2. Highlight **Home** on the top line of **layer 2**.
3. On the **Insert** menu, click **Hyperlink**.



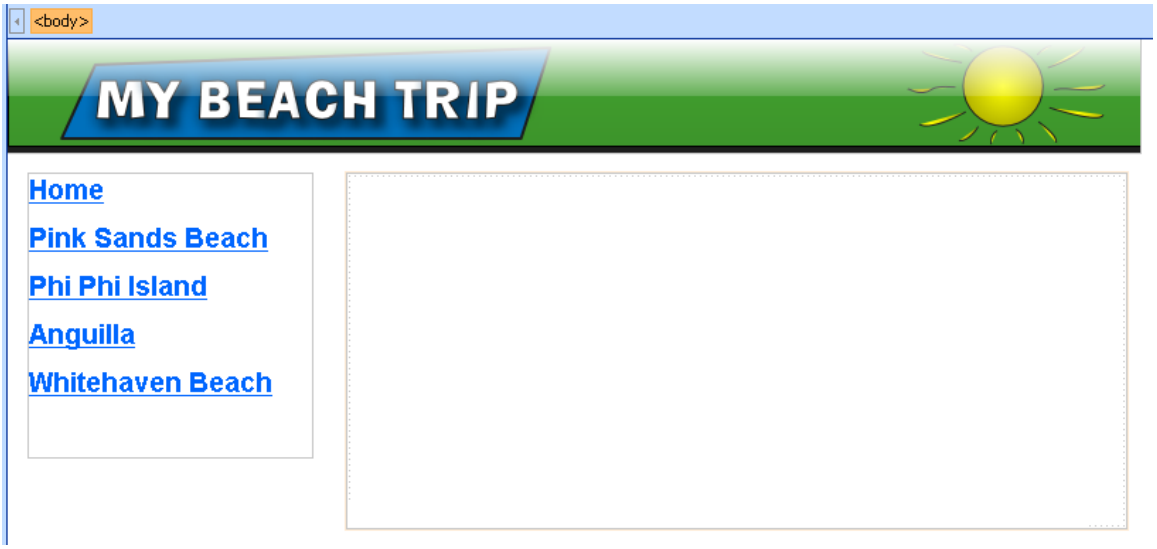
4. In the **Insert Hyperlink** dialog box, select **index.html** and click **OK**.



5. Repeat steps 2 to 4 for the remaining words in the menu: Pink Sands Beach, Phi Phi Island, Anguilla, and Whitehaven Beach. Be sure to select the correct HTML document for each link.
6. On the **File** menu, click **Save**.
7. In the **Microsoft Expression Web** dialog box, click **Yes**.



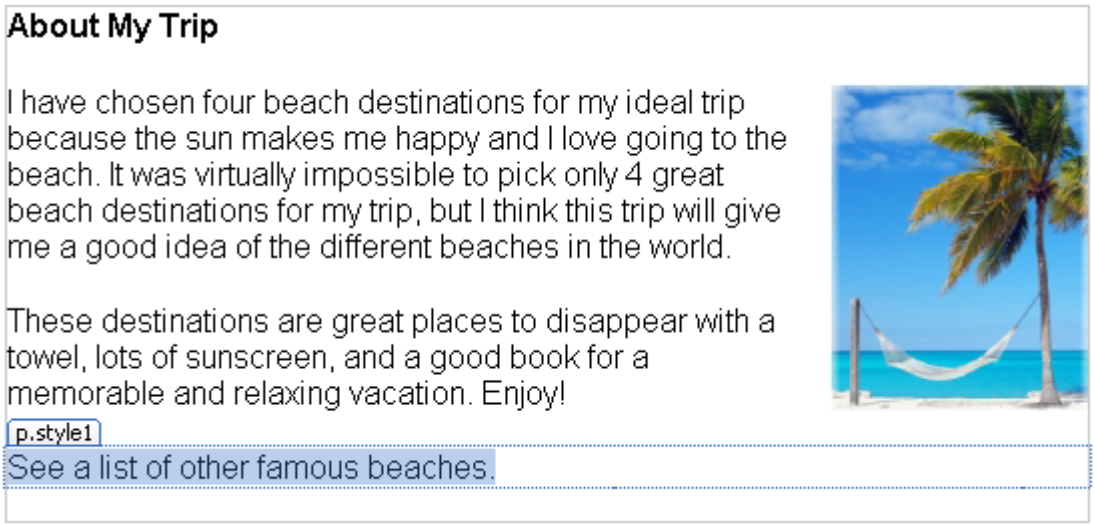
8. In the next dialog box, click **Close**.



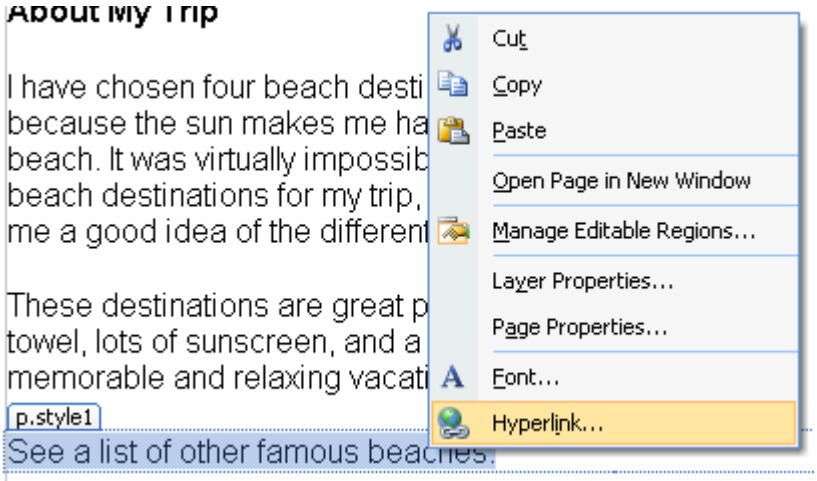
Task 2: Create an external link

Create a link to another Web site on your home page.

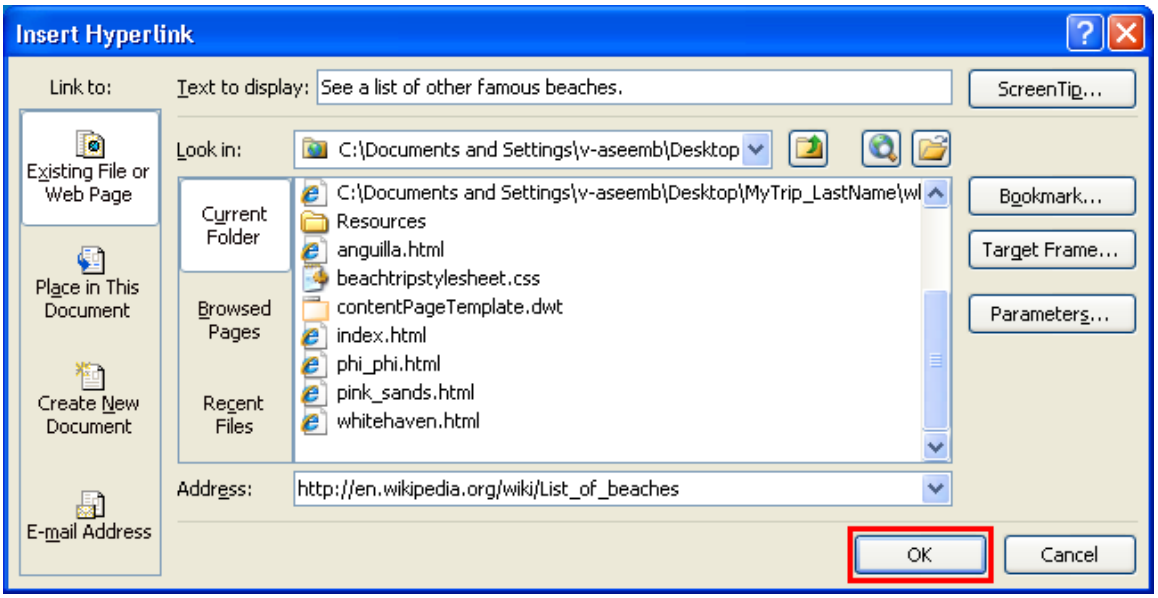
1. Open the home page (**index.html**) from the tabs at the top of the work area or from the **Folder List**.
2. Place your cursor at the end of the last paragraph in **layer 4** and press **Enter**.
3. Enter the words **See a list of other famous beaches.** Highlight the words just entered.



4. Right-click the highlighted text and click **Hyperlink**.



5. Enter **http://en.wikipedia.org/wiki/List_of_beaches** in the **Address** field and click **OK**.



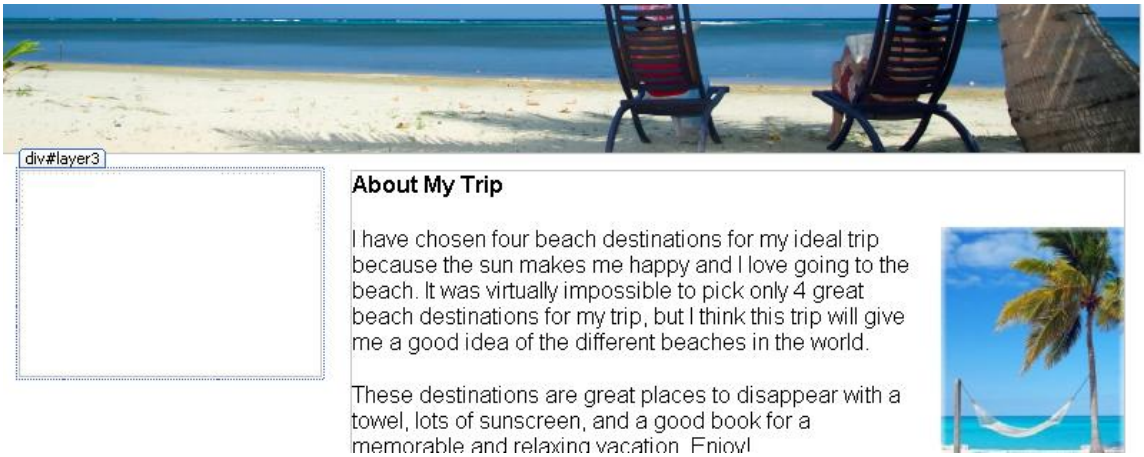
6. On the **File** menu, click **Save**.

Task 3: Create interactive buttons

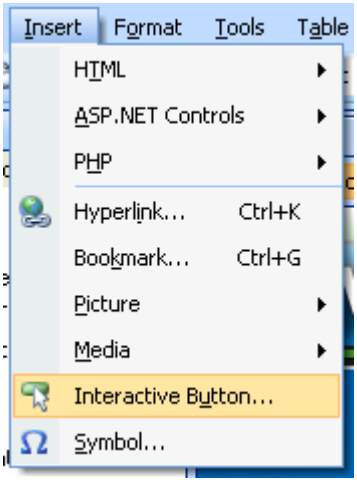
Create interactive buttons on your home page to make the navigation more attractive.

1. Open the home page (**index.html**) from the tabs at the top of the work area or from the **Folder List**.
2. Highlight the four lines of text in **layer 3** and press **Backspace** on your keyboard.

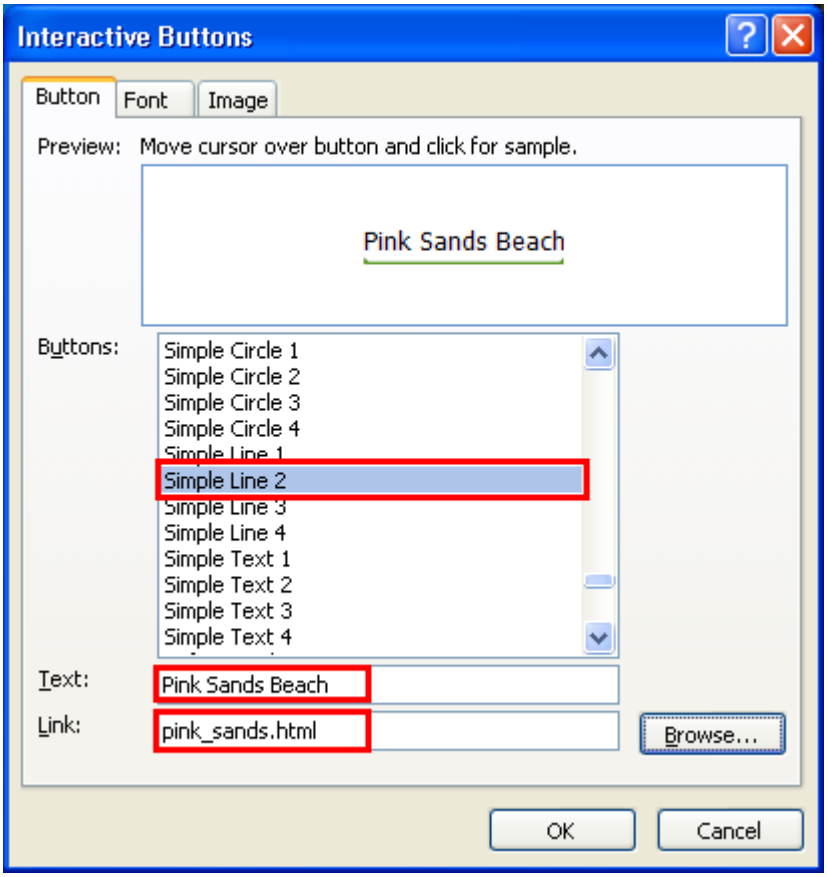
   Make sure you don't delete the layer that the links were in. Your cursor should be in the top-left corner of this layer. If you delete too much, just press **control-Z** to undo the last change.



3. On the **Insert** menu, click **Interactive Button**.

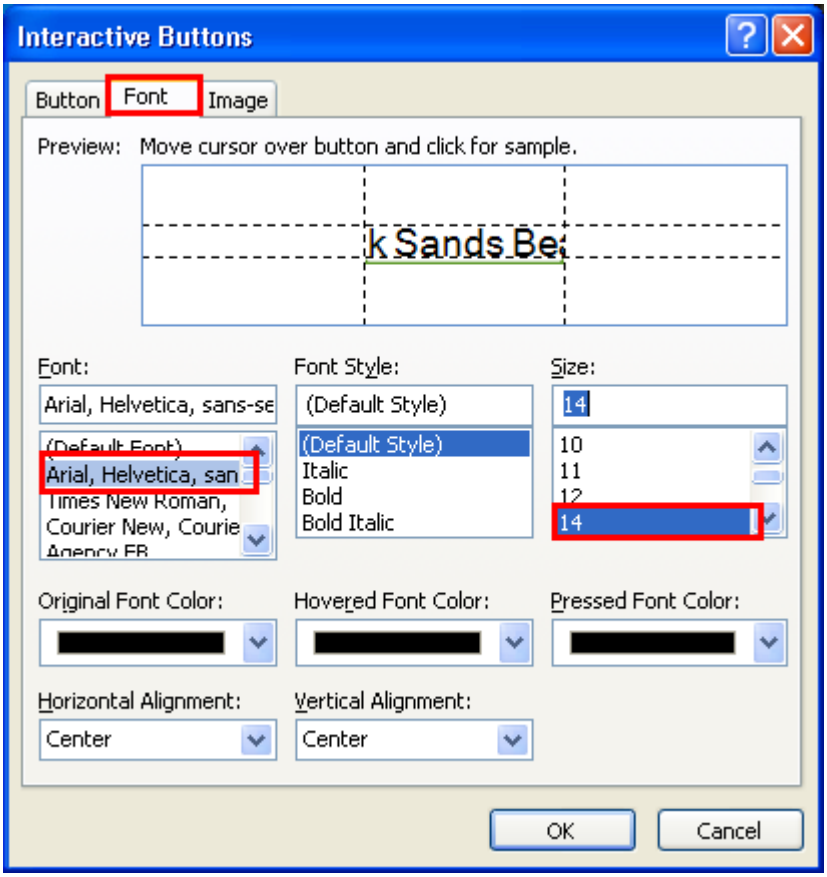


4. In the **Interactive Button** dialog, box on the **Button** tab, select **Simple Line 2** and enter **Pink Sands Beach** in the **Text** field.
5. Click **Browse** next to the **Link** field.
6. In the **Edit Hyperlink** dialog box, select **pink_sands.html** and click **OK**.



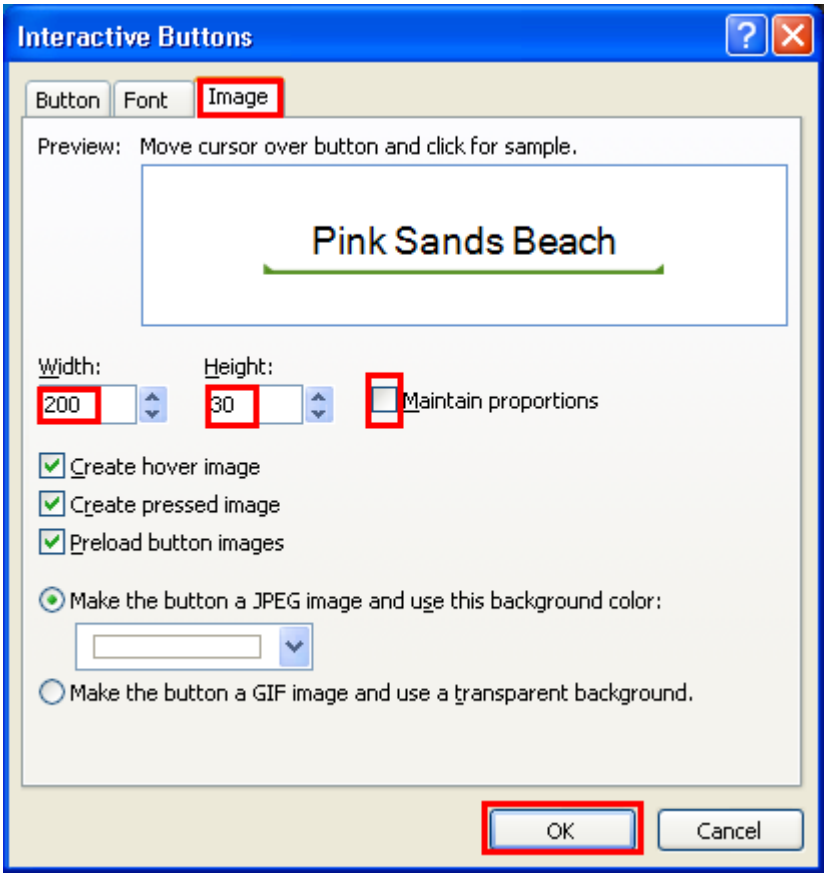
7. In the **Interactive Button** dialog box, open the **Font** tab and specify the values in the following table.

Property	Value
Font	**Arial, Helvetica, sans-serif**
Font Style	**(Default Style)**
Size	**14**



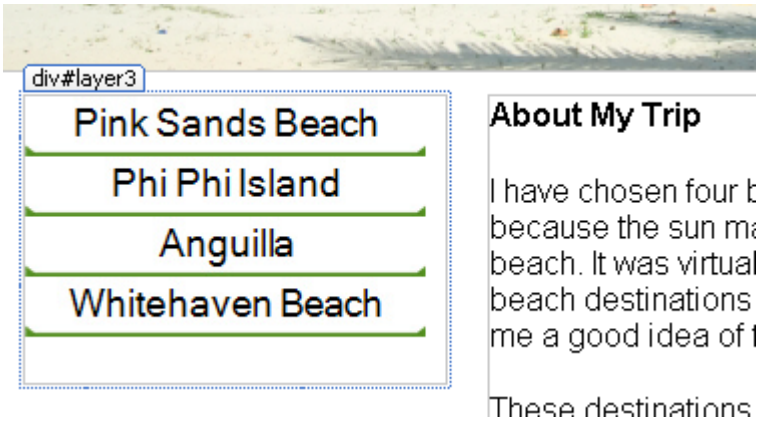
8. In the **Interactive Button** dialog box, open the **Image** tab and specify the values in the following table and click **OK**.

Property	Value
Maintain proportions	**Unchecked**
Width	**200**
Height	**30**

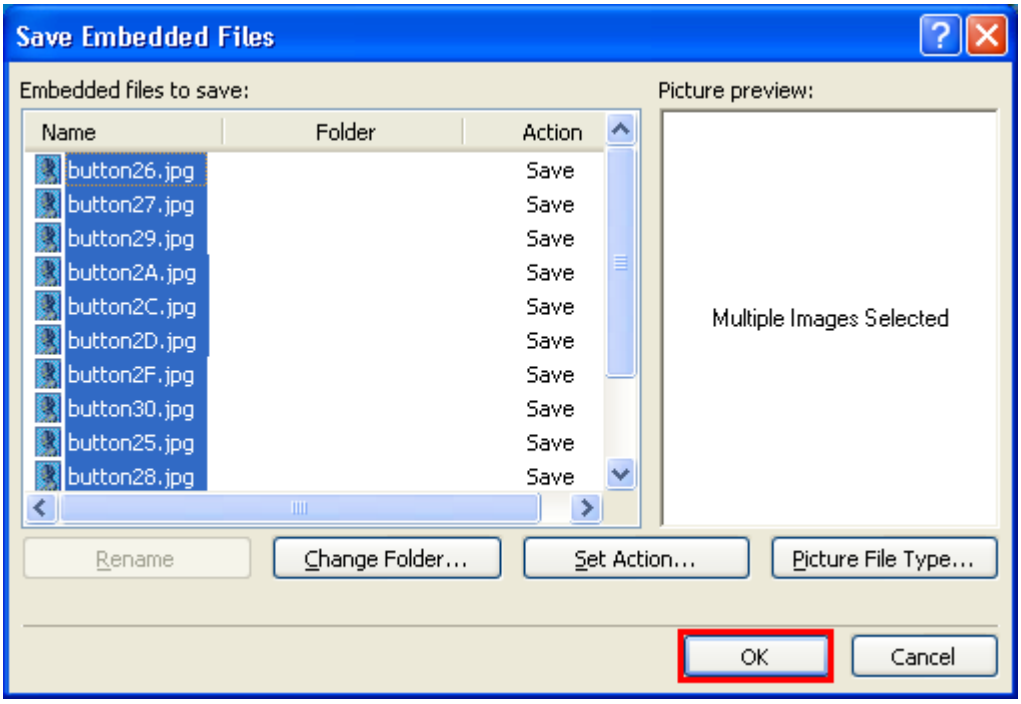


9. Repeat steps 3 through 8 to create interactive buttons for each of the remaining selections in the menu: Phi Phi Island, Anguilla, and Whitehaven Beach.

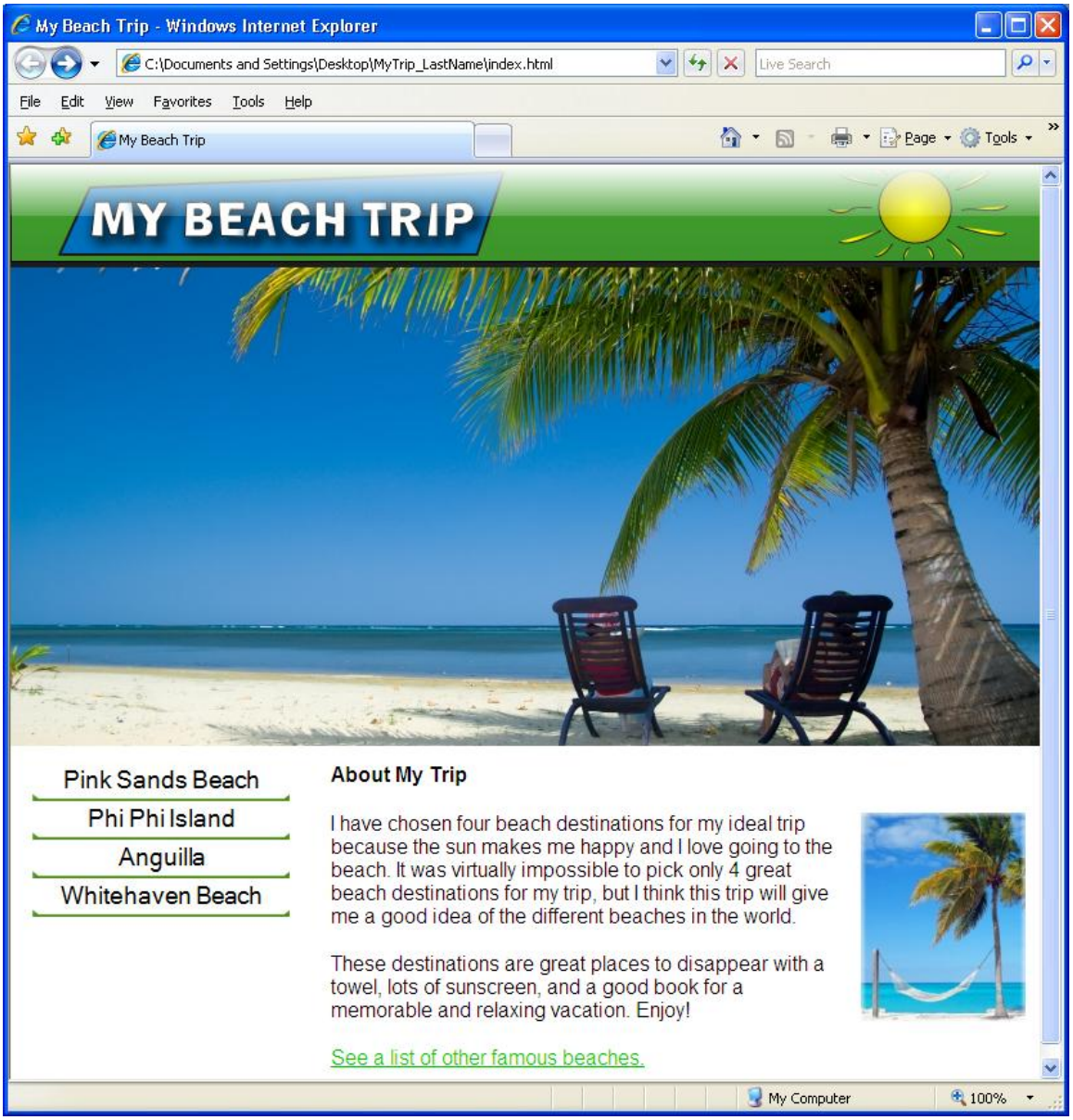
   You can use the same process to create interactive buttons on the Dynamic Web Template for the rest of the Web site.



9. On the **File** menu, click **Save**.
10. On the **Save Embedded Files** dialog box, click **OK**.



11. On the **File** menu, point to **Preview in Browser** and click **Windows Internet Explorer 7.0 (1024 X 768)** (or whatever browser you have installed on your computer).
12. Test your links and interactive buttons and then close the browser window.



Congratulations!

You've just completed the "My Beach Trip" Web site using Expression Web.

You learned to use many tools and Web technologies that will be useful as you design more Web pages. You can now expand your knowledge of Expression Web with the third tutorial in the Beaches Around the World series - Expression Web Tutorial (Advanced): Beaches Around the World.

The complete series of tutorials are included in the semester-long curriculum, *Introduction to Web Design Using Microsoft Expression Studio* (modules 4, 5, & 7).

Experiment with Expression Web and explore the Help Menu to learn about more exciting Web design features and technologies. There are also many learning resources online at http://expression.microsoft.com/en-us/cc197140.aspx.