Tables

Tables are a great way to organize data into rows and columns. HTML tables are used to display a vari
webpage, from presenting numerical data, to financial reports, or to other content where you want to co
columns and rows of content within the table.

Tables should *never* be used to structure the layout of a webpage.

Table Structure and Syntax

Tables are created using the <table> element. Inside the table tags, table rows are created using the <t
content are created using the <td> (table data) element. The <th> element is used instead of <td> to in
row. By default, table headings are rendered in a different typeface (typically bold and centered) for vis

The following table lists the essential html elements used to define the structure of a table.

HTML Table Tags

HTML Tag	Tag Description
<table></table>	The table tag (<table><) is the main container tag that defines a table
<caption></caption>	The caption tag (<caption>) defines the table caption, or the name of the proper syntax is to add the caption tag directly after the table tag
<thead></thead>	The header tag (<thead>) defines the header content in a table.
<tbody><tbody>	The body tag (<tbody>) defines the content that makes up the body used if a table's structure includes header and footer tags.
<tr></tr>	The table row tag (<tr>) defines a table row within the table's structure table row (<tr></tr>) to be valid.
<th></th>	The <th></th> tag that defines a header cell for a column or row in a bold and centered.
<td></td>	The <td></td> defines a cell within a table. Each table needs at least **Columns in a table are determined by the number of <td> tags in a **Cells can be merged with the "colspan" tag, e.g., <td colspan="2">
<tfooter></tfooter>	The footer tag (<tfooter></tfooter>) defines the footer content in a tab

Now that we've had a chance to review the basic HTML tags that make up the structure of a table, let's
see how these html elements work together to render a table.

```
        </tfoot>
      </table>
   </body>
</html>
```

Notice how the table renders in the browser window. By default, tables do not have borders. These car
which is covered in a later course.

Exercise: Creating a Table

Let's create a simple table using the following information.

Instructions:

Build a table with five columns and three rows that lists horse type categories across the top of each co
each column header, list the breeds of horses that belong in that horse type category.

The five categories of horses are as follows:

- Draft Horses
- Gaited Horses
- Light Horses
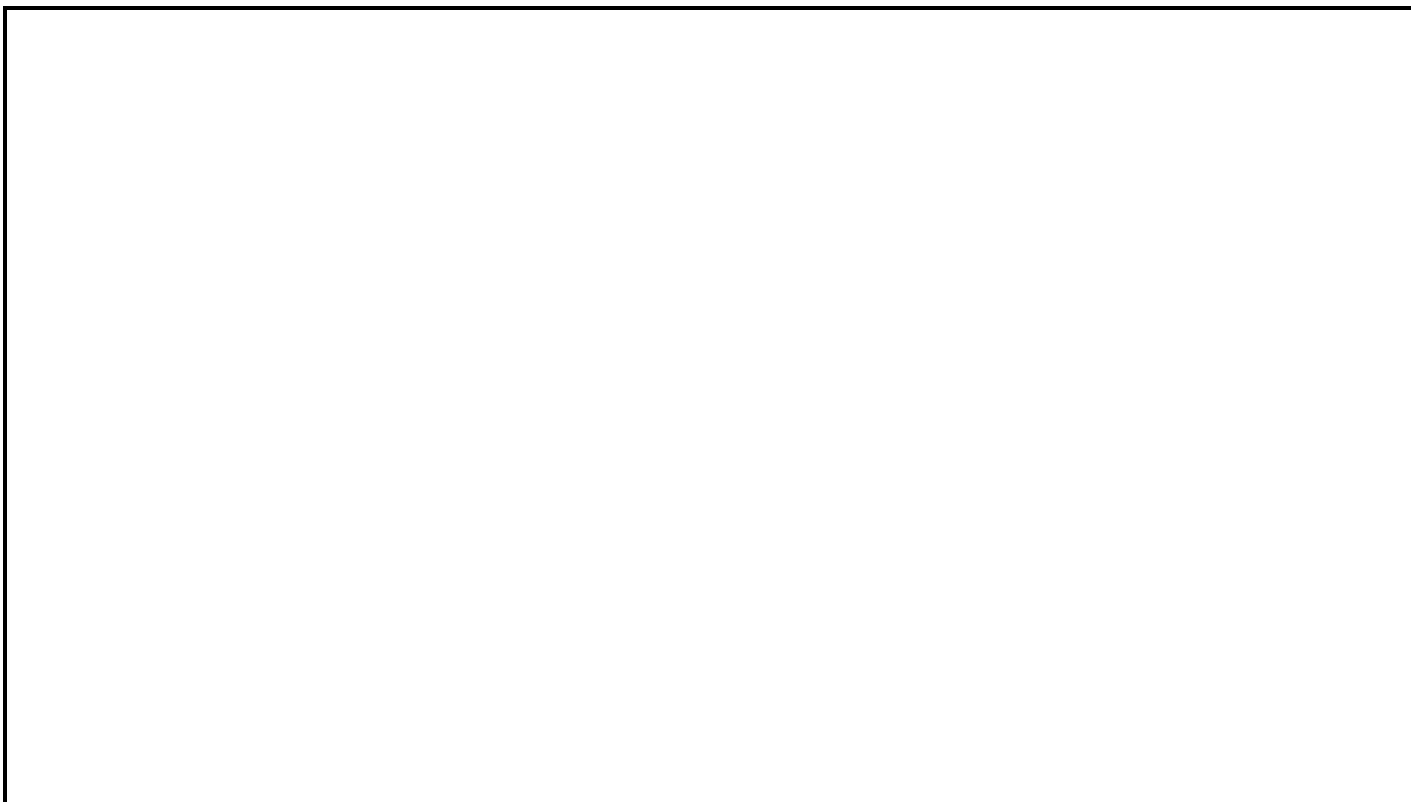- Ponies
- Warmbloods

The breeds associated with each type of horse are as follows:

- Draft Horses: Belgian, Clydesdales, Percheron
- Gaited Horses: American Saddlebred, Paso Fino, Tennessee Walking Horse
- Light Horses: American Quarter Horse, Appaloosas, Morgans
- Ponies: Connemara Pony, Hackney Pony, Shetland Pony
- Warmbloods: Dutch Warmblood, Hanoverian, Trakehner

Run Code | Save | Export | Reset

index.html

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  </head>
6  <body>
7
8
```

Theme Select:

rubyblue

Click the following tab to check your answer.

▸ **Check Your Answer**

The correct code for this lab is below.

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
</head>
<body>
<table>
 <tr>
        <th>Draft Horses</th>
        <th>Gaited Horses</th>
        <th>Light Horses</th>
        <th>Ponies</th>
        <th>Warmbloods</th>
 </tr>
 <tr>
```

```
 </table>
</body>
</html>
```

The following illustrates the correct code in the lab tool.

Run Code block

index.html

```
7  <table>
8    <tr>
9      <th>Draft Horses</th>
10     <th>Gaited Horses</th>
11     <th>Light Horses</th>
12     <th>Ponies</th>
13     <th>Warmbloods</th>
14   </tr>
15   <tr>
16     <td>Belgian</td>
17     <td>American Saddlebred</td>
18     <td>American Quarter Horse</td>
19     <td>Connemara Pony</td>
20     <td>Dutch Warmblood</td>
21   </tr>
22   <tr>
23     <td>Clydesdales</td>
```

Draft Horses	Gaited Horses	Light Horses	
Belgian	American Saddlebred	American Quarter Horse	C Pc
Clydesdales	Paso Fino	Appaloosas	H Pc
Percheron	Tennessee Walking Horse	Morgans	Sl Pc

Row and Column Span (<rowspan> & <colspan>) Attributes

Cells within a table can be formatted to span multiple columns or multiple rows using the attributes col
at an example of how each attribute works. First, we will look at colspan.

colspan

Notice in the table in the example below that the colspan attribute in the second <th> (<th colspan="2":
header cell that spans two columns—the second and third column— in the table that is rendered in the
has been added to help illustrate how colspan changes the table's layout. Again, by default, HTML tabl

```
<!DOCTYPE html>
<html>
  <head>
    <title>Creating Tables</title>
  </head>
  <body>
    <table border="1">
```

The table caption is placed here.

Column 1	Column 2 & Column 3	
Row 1, Column 1	Row 1, Column 2	Row 1, Column
Row 2, Column 1	Row 2, Column 2	Row 2, Column

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Creating Tables</title>
  </head>
  <body>
    <table border="1">
      <caption>The table caption is placed here.</caption>
      <thead><!--the header tag defines the table's header row -->
        <tr>
            <th>Column 1</th>
            <th>Column 2</th>
            <th>Column 3</th>
        </tr>
      </thead>
      <tbody><!--the body tag defines the body of table's content -->
        <tr>
            <td rowspan="2">spanned row</td>
            <td>Row 1, Column 2</td>
            <td>Row 1, Column 3</td>
        </tr>
        <tr>
            <td>Row 2, Column 2</td>
            <td>Row 2, Column 3 </td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

The table caption is placed here.

Column 1	Column 2	Column 3
spanned row	Row 1, Column 2	Row 1, Column 3
	Row 2, Column 2	Row 2, Column 3

Exercise:

Let's practice building a table using colspan and rowspan.

Instructions:

Build a two column table with the following specifications:

- The table header row should read "The Five Categories of Horses" and span two columns.
- The second table row should contain two header cells: "Category" and "Examples"
- The first cell in each row under the first column should list the horse category and should span th categories: Draft Horse, Gaited Horse, Light Horse, Ponies, and Warmbloods
- The cells underneath the second column should list example breeds for each category of horse. category. The example breeds for each category are listed below
    - Draft: Belgian, Clydesdales, Percheron
    - Gaited Horses: American Saddlebred, Paso Fino, Tennessee Walking Horse
    - Light Horse: American Quarter Horse, Appaloosas, Morgans
    - Ponies: Connemara Pony, Hackney Pony, Shetland Pony
    - Warmbloods: Dutch Warmblood, Hanoverian, Trakehner

To assist with viewing the colspans and rowspans, we are going to add a little bit of CSS to add border purpose of this exercise, use the following syntax for your opening table tag:

	Dutch Warmblood
Warmbloods	Hanoverian
	Trakehner

Enter your code into the code tool below. When you are finished, click on the 'run code block' button to in a browser window.

Run Code Save Export Reset

index.html

```
 1  <!doctype html>
 2  <html>
 3  <head>
 4  <meta charset="utf-8">
 5  </head>
 6      <body>
 7
 8
 9  </body>
10  </html>
11
12
13
```

```
      <th>Category</th>
      <th>Examples</th>
   </tr>
   <tr>
      <th rowspan="3">Draft Horses</th>
      <td>Belgian</td>
   </tr>
   <tr>
      <td>Clydesdales</td>
   </tr>
   <tr>
      <td>Percheron</td>
   </tr>
   <tr>
      <th rowspan="3">Gaited Horses</th>
      <td>American Saddlebred</td>
   </tr>
   <tr>
      <td>Paso Fino</td>
   </tr>
   <tr>
      <td>Tennessee Walking Horse</td>
   </tr>
   <tr>
      <th rowspan="3">Light Horses</th>
      <td>American Quarter Horse</td>
   </tr>
   <tr>
      <td*gt;Appaloosas</td>
   </tr>
   <tr>
      <td>Morgans</td>
   </tr>
   <tr>
      <th rowspan="3">Ponies</th>
      <td>Connemara Pony</td>
   </tr>
   <tr>
      <td>Hackney Pony</td>
   </tr>
   <tr>
      <td>Shetland Pony</td>
   </tr>
   <tr>
```

```
 5 </head>
 6    <body>
 7 <table border="1">
 8 <tr>
 9 <th colspan="2">The Five
   Categories of
   Horses</th>
10 </tr>
11
12 <tr>
13 <th>Category</th>
14 <th>Examples</th>
15
```

	Percheron
	American S
Gaited Horses	Paso Fino
	Tennessee V
	American Q
Light Horses	Appaloosas
	Morgans
	Connemara
Ponies	Hackney Po
	Shetland Po
	Dutch Warm
Warmbloods	Hanoverian

Table Tip

Do not use tables to structure the layout of a webpage. Tables should be used for tabular data only

Review Checkpoint

To test your understanding of the content presented in this assignment, please click on the Questions i
answering any of the questions presented here, you are always free to return to this or any assignment

1. What is the default formatting of the <th> tag?

    a. **bolded**.

Incorrect. Try again.

    b. *italicized*.

Incorrect. Try again.

    c. **bolded** and centered.

Correct. By default, browsers bold and center <th> tags .

    d. *italicized* and centered.

Incorrect. Try again.

2. True or False?

Tables can be used to display tabular data or to format webpage layouts.

    a. True

Incorrect. Try again.

    b. False

Correct. This is a false statement. Tables should be used for tabular data only.