Tables

1. **Table construction:**

    - Tables are constructed or "read" from left to right and top to bottom. Think of how you are reading this text.
    - A set of cells going across the width of the table from left to right is referred to as a Table Row <tr>
    - The information in each Table Row <tr> is broken down into Table Data <td>. Each <td> represents a cell in the table.

2. **Tables are made up of the following elements:**

3. **<table> </table>**

    - Each table starts and ends with the **TABLE** tag set.

4. **<tr></tr>**

    - Each horizontal row is made up of a **TABLE ROW** tag set.

5. **<td></td>**

    - Within each table row tag set, the **TABLE DATA** tag sets contain the table's actual data. **<TD>** tags make up the cells of the table.

6. Here is what the code looks like for the two tables above.

```
49
50  <table border="1">
51
52      <tr>
53          <td >Row 1</td>
54          <td >Row 1</td>
55          <td >Row 1</td>
56      </tr>
57
58      <tr>
59          <td >Row 2</td>
60          <td >Row 2</td>
61          <td >Row 2</td>
62      </tr>
63
64      <tr >
65          <td >Row 3</td>
66          <td >Row 3</td>
67          <td >Row 3</td>
68      </tr>
69
70  </table>
71
```

```
8   <table border="1">
9
0       <tr>
1           <td>Col 1</td>
2           <td>Col 2</td>
3           <td>Col 3</td>
4       </tr>
5
6       <tr>
7           <td>Col 1</td>
8           <td>Col 2</td>
9           <td>Col 3</td>
0       </tr>
1
2       <tr>
3           <td>Col 1</td>
4           <td>Col 2</td>
5           <td>Col 3</td>
6       </tr>
7
8   </table>
9
```

7. You can style a table using CSS. The possibilities are endless!

```
table {
        border: solid 2px gray;
        border-collapse: collapse;      // makes the border solid rather than beveled
        }


td{
        margin: 10px;
        border: solid 2px gray;
        }


.gray {
        color: green;
        }
```

Apply this class to a part of a table:
<td class="green">text</td>
and the text will be green.

8. The Counter-intuitive Colspan attribute

- **COLSPAN** merges row cells together.

- For example, if you have a table with three columns and three rows.

- You want to combine the cells in the first **ROW**

- You do that by adding the **COLSPAN** attribute to the appropriate **<TD>** tag set

- and removing the **<TD></TD>** elements you no longer need

Do	Re	Mi
One	Two	Three
Rock	Paper	Scissors

Do Re Mi		
One	Two	Three
Rock	Paper	Scissors

```
<table border="1">

  <tr class="red">
     <td colspan="3" align="center">Do Re Me</td>
  </tr>

  <tr>
     <td >One</td>
     <td >Two</td>
     <td >Three</td>
  </tr>

  <tr class="green">
     <td >Rock</td>
     <td >Paper</td>
     <td >Scissors</td>
  </tr>

</table>
```

9. Conversely, if you want to merge cells together in a column, you do it with the ROWSPAN attribute.

- In this instance, you want to combine the cells in the first column

- You do that by adding the **ROWSPAN** attribute to the appropriate **<TD>** tag set

- and removing the **<TD></TD>** elements you no longer need

```
<table border="1">

  <tr class="red">
      <td rowspan="3">Do</td>
      <td >Re</td>
      <td >Mi</td>
  </tr>

  <tr>

      <td >Two</td>
      <td >Three</td>
  </tr>

  <tr class="green">

      <td >Paper</td>
      <td >Scissors</td>
  </tr>

</table>
```

Do	Re	Mi
	Two	Three
	Paper	Scissors