



## Disclaimer

The purpose of this e-book is to provide some basic technical knowledge to creating web pages.

More complex Web Sites might require additional expertise, knowledge or information.

Use this e-book as a guide and 1 of 6 in a series using HTML5.

Hope the information provided here gets you off to a good start with all your Web Site Pages and Projects.

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Note: Addendum ([\*easy\\_learning\\_support1.html\*](#)) available includes:

- 1) Easy learning quizzes.
- 2) Building The Web Page Video. Free to view or purchase.
- 3) Using Responsive Design Video . Free to view or purchase.

## Introduction

### HTML5: Easy Learning Series #1

#### Features including:

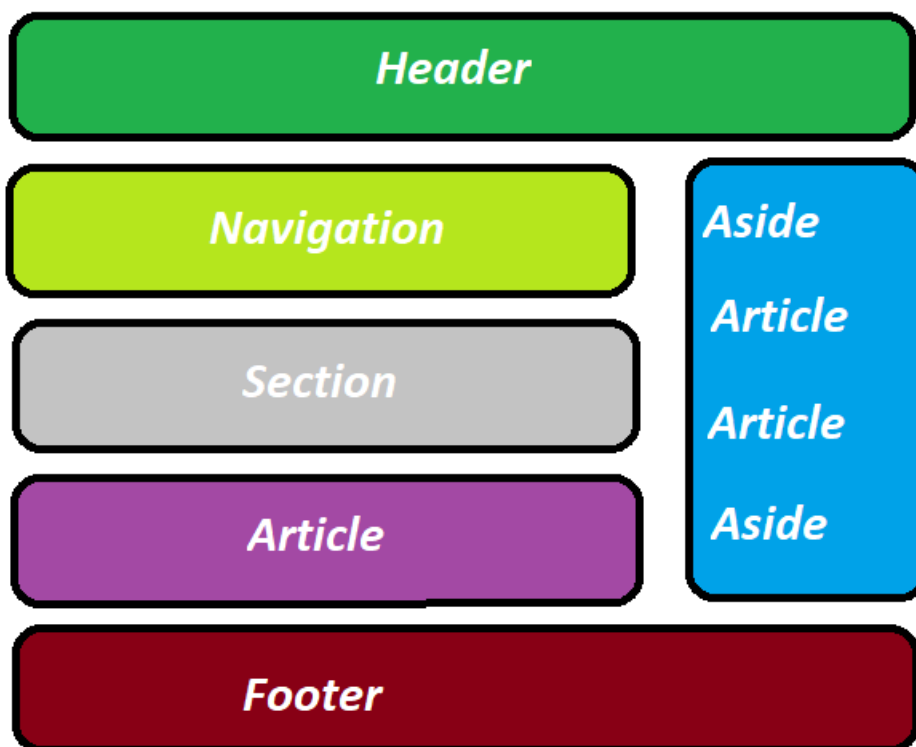
- 1) Web Page Sections
- 2) Transforms
- 3) Transitions
- 4) Responsive Designs
- 5) Flexboxes.

#### You'll learn:

Basic sections of a Web Page include:

- 1) Header
- 2) Navigation
- 3) Section
- 4) Article
- 5) Aside
- 6) Footer

Shown Below:



How to use html5, Css/Css3 and JavaScript.

### Good to know:

Experience using a text editor .

Can run a "html page" in the browser

Ready to add features and build this page with more updates(html/Css/Js).

"Html Code " contains the Page Elements.

"Css Code" contains the Page Layout & Styling.

"Jscript Code" contain the Page Behavior.

## Summary:

Study these pages, make changes and understand what's happening. This will help as we update this application with new html, Css and Js updates.

Be sure to read the comments in the "html page" it contains valuable information about the page and html5. Also commenting your code is a common practice when coding.

Also, know this is a real and functioning Web Page with features that can be used in your current projects.

Enjoy the learning.

Thanks, Tech

## FEATURE #1 - Create A Web Page

Create This Shoe Shop Using HTML

Learn Five(5) HTML5 Features:

- ~ Web Page
- ~ Transforms
- ~ Transitions
- ~ Responsive Design
- ~ Flexbox Model

Create This Shoe Shop



Using:

- ~ Instructions
- ~ Code

Creating The Website Web Page(or Pages)

### \*\*\* INSTRUCTION and CODE \*\*\*

Instructions:

1) Create the two(2) files:

shoeshop.html

shoeshop.css

2) Copy "html text" into the file below:

shoeshop.html

3) Copy "css text" into the file below:

shoeshop.css

4) Place the two(2) files in same directory.

5) Run/Open the "html" file in the browser.



## Code:

html text:

=====

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
  <meta charset="utf-8" />
```

```
  <link href="shoeShop.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

<header>

<!--The top and important part of the page. Provides an introduction and name to article or company.-->

<h1>

Mary's Shoe Store<br />





</h1>

</header>

<nav>

<!--Page menu-->

<a href="#" onclick="alert('Home Page Here! Coming!');">home</a>

<a href="#" onclick="alert('About Page Here! Coming!');">about</a>

<a href="#" onclick="alert('Contact Page Here! Coming!');">contact</a>

</nav>

<section>

<!--page content-->

<h2>Today's Sales Specials:</h2>

<ul>

```
</li><p>Christmas: $12.99</p></li>
```

```
</li><p>Mother's Day:$15.99</p></li>
```

```
</li>
```

```
<p>Holiday: $12.99</p>
```

```
</li>
```

```
</ul>
```

```
</section>
```

```
<article>
```

```
<!--page content: article-->
```

```
<h2>Article: Shoe Care "3" Tips</h2>
```

```
<ul>
```

```
<li> Keep your Shoes Clean </li>
```

```
<li> Don't wear the same pair every day </li>
```

```
<li> Check your soles and heels often </li>
```

```
</ul>
```

```
</article>
```

```
<aside>
```

```
<!--page content: extra and interesting information -->
```

```
<h2>Aside: Note</h2>
```

```
<p>
```

```
<h2>Shoe Design Studio occupies the space between a museum and art  
studio, in which our shoe designers can truly explore their passions. </h2>
```

```
</p>
```

```
</aside>
```

```
<footer>
```

```
<!--footer content: bootom of page containing copyright and compamy  
information -->
```

```
<hr />
```

```
Copyright (C) 2020. All rights reserved.
```

```
</footer>
```

```
</body>
```

```
</html>
```

```
=====
```

## css text:

=====

```
header {  
    border-bottom-style: solid;  
}  
  
h1 {  
    color: black;  
    text-shadow: 2px 2px 4px #000000;  
}  
  
#shop {  
    width: 250px;  
    height: 250px;  
}  
  
#truck {  
    margin-left: 300px;  
    width: 200px;
```

```
height: 200px;
transition: all 5s ease-in-out;
position: absolute;
}
```

```
#truck:hover {
    transform: translate(80em,0);
}
```

```
nav {
    font-size: 24px;
}
```

```
aside {
    margin-top: 5px;
    background-color: #f0eaea;
    padding: 5px;
    text-align: center;
    font-style: italic;
    border: double 3px #b200ff;
}
```

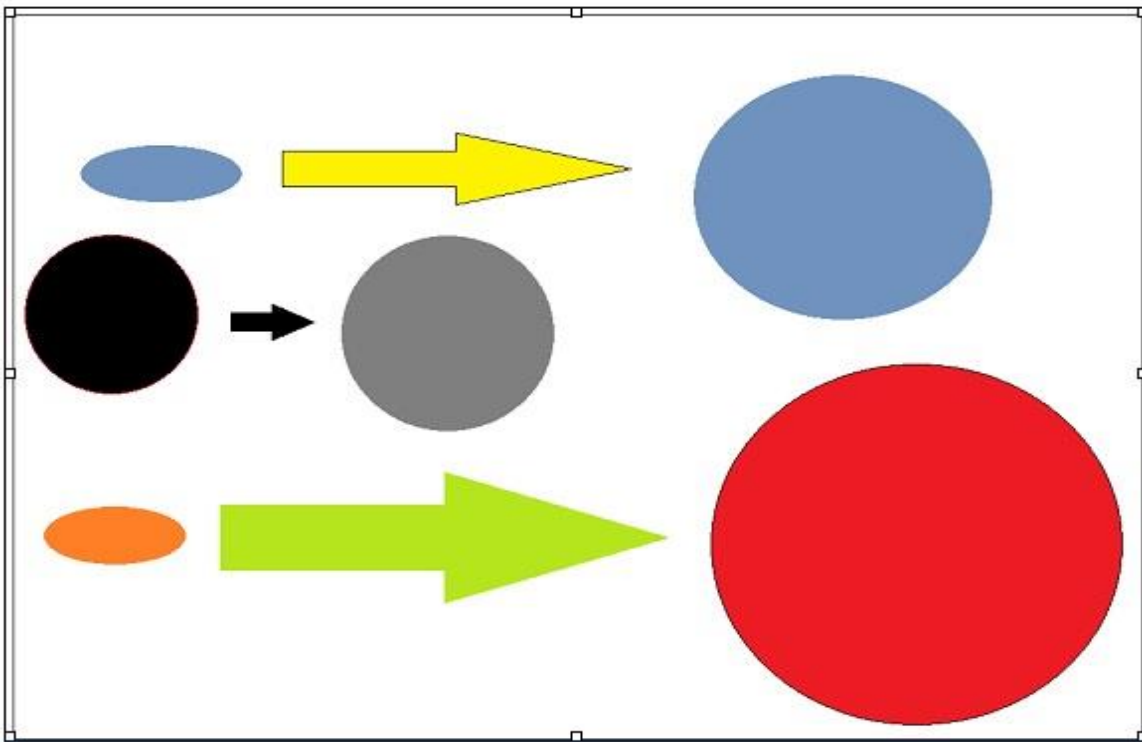
```
body {  
    margin-left: 100px;  
}
```

=====

## Notes:

1. You now have a real and functioning Web Page.
2. These features can be used in other projects.

## FEATURE #2 - Create A Transform



Using **Transforms** on a web page. Includes: **Scale**, **Rotate**, **Skew** and **Move(Transition)**.



## \*\*\* INSTRUCTION and CODE \*\*\*

### Instructions:

1) Create the two(2) files:

shoeshop.html

shoeshop.css

2) Copy "html text" into the file below:

shoeshop.html

3) Copy "css text" into the file below:

shoeshop.css

4) Place the two(2) files in same directory.

5) Run/Open the "html" file in the browser.

## Code:

## html text:

```
=====

<!DOCTYPE html>

<html>

<head>

  <title></title>

  <meta charset="utf-8" />


  <link href="shoeShop.css" rel="stylesheet" />


</head>


<body>

  <header>

    <!--The top and important part of the page. Provides an introduction and name to article or
    company.-->


    <h1>

      Mary's Shoe Store<br />

    </h1>

     Transition(move)</>

     Rotate</>
```

 Grow </>

 Skew</>

</header>

<nav>

<!--Page menu-->

<a href="#" onclick="alert('Home Page Here! Coming!');">home</a>

<a href="#" onclick="alert('About Page Here! Coming!');">about</a>

<a href="#" onclick="alert('Contact Page Here! Coming!');">contact</a>

</nav>

<section>

<!--page content-->

<h2>Today's Sales Specials:</h2>

<ul>

<li><p>Christmas: \$12.99</p></li>

<li><p>Mother's Day:\$15.99</p></li>

<li>

<p>Holiday: \$12.99</p>

</li>

</ul>

</section>

<article>

<!--page content: article-->

<h2>Article: Shoe Care "3" Tips</h2>

<ul>

<li> Keep your Shoes Clean </li>

<li> Don't wear the same pair every day </li>

<li> Check your soles and heels often </li>

</ul>

</article>

<aside>

<!--page content: extra and interesting information -->

<h2>Aside: Note</h2>

<p>

<h2>Shoe Design Studio occupies the space between a museum and art studio, in which our shoe designers can truly explore their passions. </h2>

</p>

</aside>

<footer>

<!--footer content: bootom of page containing copyright and compamy information -->

<hr />

Copyright (C) 2019. All rights reserved.

```
</footer>
```

```
</body>
```

```
</html>
```

=====

## css text:

=====

```
header {  
    border-bottom-style: solid;  
}
```

```
h1 {  
    color: black;  
    text-shadow: 2px 2px 4px #000000;  
}
```

```
#shop {  
    width: 150px;
```

```
    height: 150px;  
}
```

```
#truck {  
    margin-left: 200px;  
    width: 100px;  
    height: 100px;  
    /* transition: all 5s ease-in-out;*/  
    /* position: absolute;*/  
}
```

```
#truck2 {  
    margin-left: 250px;  
    width: 100px;  
    height: 100px;  
}
```

```
#truck3 {  
    margin-left: 300px;  
    width: 100px;
```

```
    height: 100px;  
}
```

```
#truck4 {  
    margin-left: 350px;  
    width: 100px;  
    height: 100px;  
}
```

```
/**  
    *** transform - hover and move the truck  
    ***  
    ***/  
#truck:hover {  
    /* transform: translate(50,100);*/  
    transform: translate(50px,100px);  
}
```

```
#truck2:hover {  
    /* transform: translate(50,100);*/  
    transform: rotate(45deg);
```

```
}
```

```
#truck3:hover {  
    /* transform: translate(50,100);*/  
    transform: scale(1.5);  
}
```

```
#truck4:hover {  
    /* transform: translate(50,100);*/  
    transform: skew(20deg);  
}
```

```
nav {  
    font-size: 24px;  
}
```

```
aside {  
    margin-top: 5px;  
    background-color: #f0eaea;  
    padding: 5px;
```



```
text-align: center;  
font-style: italic;  
border: double 3px #b200ff;  
}
```

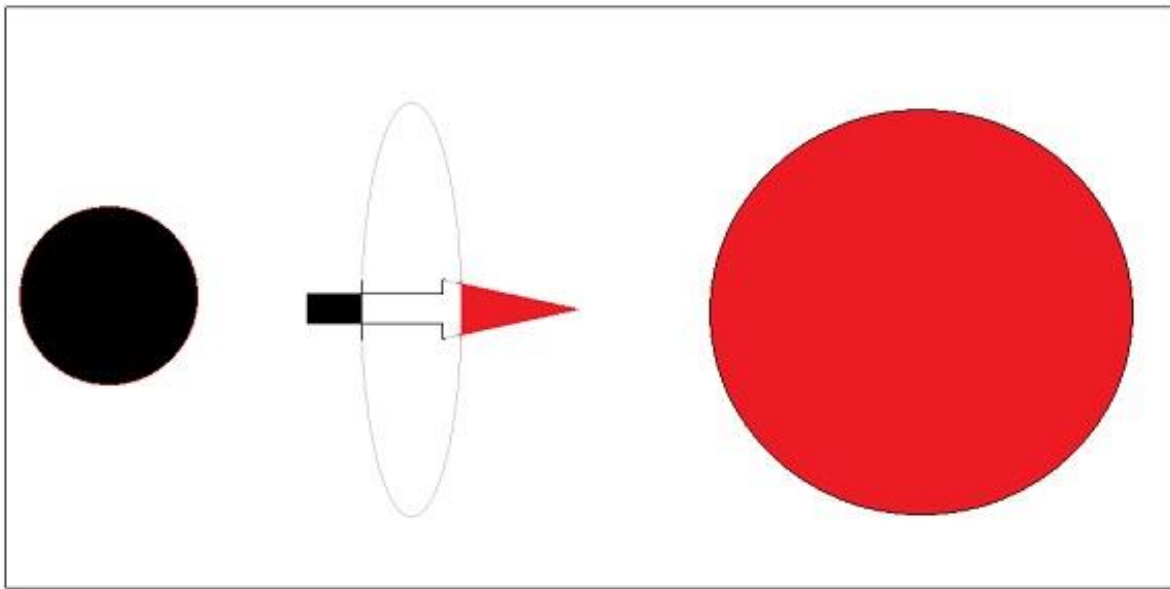
```
body {  
    margin-left: 100px;  
}
```

=====

## Notes:

1. You now have a real and functioning Web Page.
2. These features can be used in other projects.

## FEATURE #3 - Create Transitions



All about smooth changes in web page elements.

Transition properties include:

1. **Transition.** Adds a transition to an element.
2. **Transition-delay**
3. **Transition-duration**
4. **Transition-property**
5. **Transition-timing-function.** The various speeds during transition.

## \*\*\* INSTRUCTION and CODE \*\*\*

### Instructions:

1) Create the two(2) files:

shoeshop.html

shoeshop.css

2) Copy "html text" into the file below:

shoeshop.html

3) Copy "css text" into the file below:

shoeshop.css

4) Place the two(2) files in same directory.

5) Run/Open the "html" file in the browser.

### Code:

html text:

=====

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
  <meta charset="utf-8" />
```

```
  <link href="shoeShop.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

```
  <header>
```

```
    <!--The top and important part of the page. Provides an introduction and  
    name to article or company.-->
```

```
    <h1>
```

```
      Mary's Shoe Store<br />
```

```
      
```

```
w/transition,  
duration, ease-in, delay  </>
```

```
</h1>
```

```
</header>
```

```
<nav>
```

```
<!--Page menu-->
```

```
<a href="#" onclick="alert('Home Page Here! Coming!');">home</a>
```

```
<a href="#" onclick="alert('About Page Here! Coming!');">about</a>
```

```
<a href="#" onclick="alert('Contact Page Here! Coming!');">contact</a>
```

```
</nav>
```

```
<section>
```

```
<!--page content-->
```

```
<h2>Today's Sales Specials:</h2>
```

```
<ul>
```

```
<li><p>Christmas: $12.99</p></li>
```

```
<li><p>Mother's Day:$15.99</p></li>
```

```
<li>
```

```
        <p>Holiday: $12.99</p>
    </li>
</ul>
</section>
```

```
<article>
```

```
<!--page content: article-->
```

```
<h2>Article: Shoe Care "3" Tips</h2>
```

```
<ul>
```

```
<li> Keep your Shoes Clean </li>
```

```
<li> Don't wear the same pair every day </li>
```

```
<li> Check your soles and heels often </li>
```

```
</ul>
```

```
</article>
```

```
<aside>
```

```
<!--page content: extra and interesting information -->
```

```
<h2>Aside: Note</h2>
```

```
<p>
```

```
    <h2>Shoe Design Studio occupies the space between a museum and art
studio, in which our shoe designers can truly explore their passions.  </h2>
```

```
</p>
```

```
</aside>
```

```
<footer>
```

```
    <!--footer content: bootom of page containing copyright and compamy
information -->
```

```
    <hr />
```

```
    Copyright (C) 2019. All rights reserved.
```

```
</footer>
```

```
</body>
```

```
</html>
```

```
=====
```

## css text:

=====

```
header {  
    border-bottom-style: solid;  
}
```

```
header {  
    border-bottom-style: solid;  
}
```

```
h1 {  
    color: black;  
    text-shadow: 2px 2px 4px #000000;  
}
```

```
#shop {  
    width: 150px;  
    height: 150px;  
}
```



```
#truck {  
    margin-left: 400px;  
    width: 100px;  
    height: 100px;  
    transition: width 5s; /*width(any property may do transition) 5s(duration to  
transition) ease-in-out(how transition starts(slow/fast) and/or ends(slow/fast)*/  
}  
  
#truck:hover { /*transition*/  
    width: 600px;  
}  
  
nav {  
    font-size: 24px;  
}  
  
aside {  
    margin-top: 5px;  
    background-color: #f0eaea;  
    padding: 5px;  
    text-align: center;  
    font-style: italic;  
    border: double 3px #b200ff;  
}
```

```
body {  
    margin-left: 100px;  
}
```

=====

=

## Notes:

1. You now have a real and functioning Web Page.
2. These features can be used in other projects.

## FEATURE #4 - Responsive Design



Three (3) methods for making your Web Page **look good on all devices**. They include:

- 1) **Dynamic Server Design**
- 2) **Separate URL Design**
- 3) **Responsive Web Design**

**Note:** *See video presentation*



Responsive Design Steps:

#1: **Include Browser Code. See below:**

<meta name="viewport" content="width=device-width, initial-scale=1.0"> <!-- responsive design: browser information to manage the page dimensions and scaling-->

#2: ~ Create Page Layout.

~ Use "Media Query" for final adjustments to properties of elements.

Note: Other properties can be updated, changed or removed using "Media Query."

## \*\*\* INSTRUCTION and CODE \*\*\*

### Instructions:

1) Create the two(2) files:

shoeshop.html

shoeshop.css

2) Copy "html text" into the file below:

shoeshop.html

3) Copy "css text" into the file below:

shoeshop.css

4) Place the two(2) files in same directory.

5) Run/Open the "html" file in the browser.

## Code:

html text:

=====

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
  <meta charset="utf-8" />
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0"> <!--  
responsive design: browser information to manage the page dimensions and  
scaling-->
```

```
  <link href="ShoeShop.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

```
  <header>
```

```
    <!--The top and important part of the page. Provides an introduction and  
    name to article or company.-->
```

```
      <h1>
```

```
        Mary's Shoe Store<br />
```

```
        
```

```
        
```

```
      </h1>
```

```
    </header>
```

```
    <nav>
```

```
      <!--Page menu-->
```

```
<a href="#" onclick="alert('Home Page Here! Coming!');">home</a>
<a href="#" onclick="alert('About Page Here! Coming!');">about</a>
<a href="#" onclick="alert('Contact Page Here! Coming!');">contact</a>
</nav>
```

```
<section>
```

```
<!--page content-->
```

```
<h2>Today's Sales Specials:</h2>
```

```
<ul>
```

```
  <li><p>Christmas: $12.99</p></li>
```

```
  <li><p>Mother's Day:$15.99</p></li>
```

```
  <li>
```

```
    <p>Holiday: $12.99</p>
```

```
  </li>
```

```
</ul>
```

```
</section>
```

```
<article>
```

```
<!--page content: article-->
```

```
<h2>Article: Shoe Care "3" Tips</h2>
```

<ul>

<li> Keep your Shoes Clean </li>

<li> Don't wear the same pair every day </li>

<li> Check your soles and heels often </li>

</ul>

</article>

<aside>

<!--page content: extra and interesting information -->

<h2>Aside: Note</h2>

<p>

<h2>Shoe Design Studio occupies the space between a museum and art studio, in which our shoe designers can truly explore their passions. </h2>

</p>

</aside>

<footer>

<!--footer content: bootom of page containing copyright and compamy information -->

<hr />

Copyright (C) 2019. All rights reserved.



```
</footer>
```

```
</body>
```

```
</html>
```

```
=====
```

## css text:

```
=====
```

```
header {  
  border-bottom-style: solid;  
}
```

```
h1 {  
  color: black;  
  text-shadow: 2px 2px 4px #000000;  
}
```

```
#shop {  
    width: 150px;  
    height: 150px;  
}
```

```
#truck {  
    margin-left: 300px;  
    width: 100px;  
    height: 100px;  
    transition: all 5s ease-in-out;  
    position: absolute;  
}
```

```
nav {  
    font-size: 24px;  
}
```

```
aside {  
    margin-top: 5px;
```

```
background-color: #f0eaea;
padding: 5px;
text-align: center;
font-style: italic;
border: double 3px #b200ff;
}
```

```
body {
    margin-left: 100px;
}
```

```
/*responsive design: media query*/
```

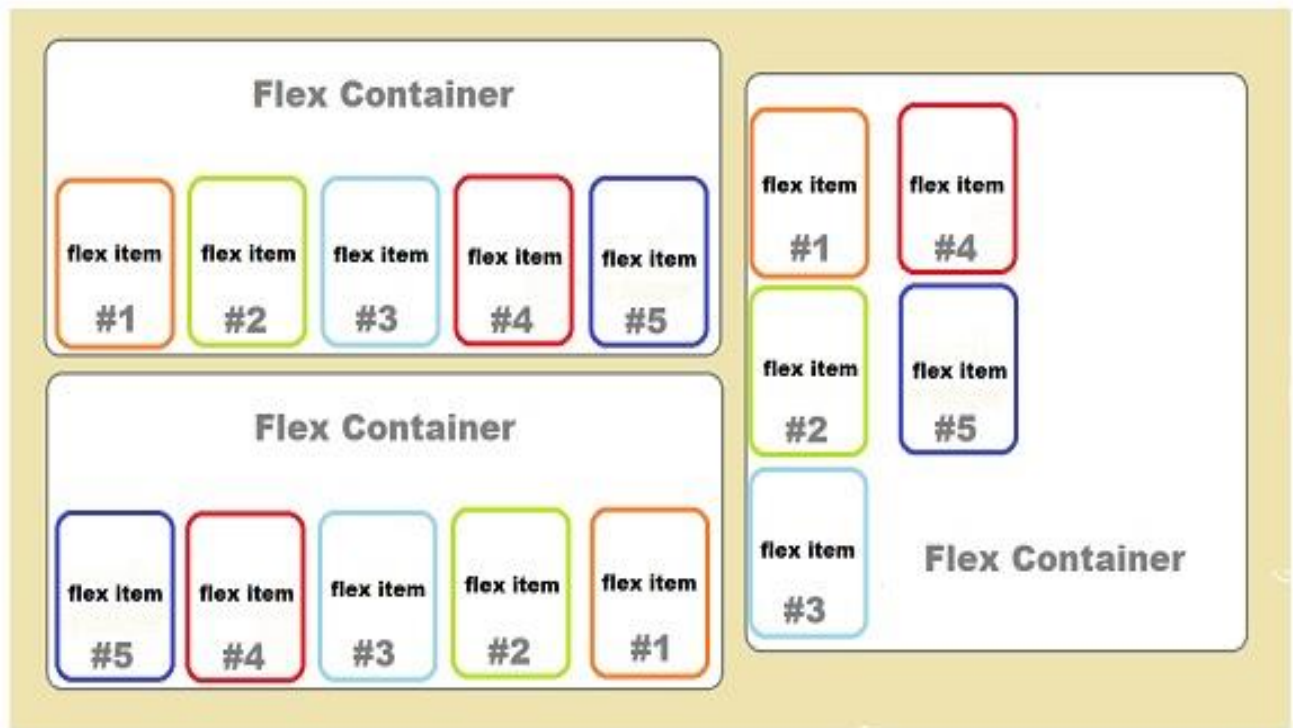
```
@media only screen and (min-width:350px) and (max-width: 555px) { /*change
background-color when screen width between 450px - 555px*/
    body {
        background-color: lightblue;
    }
}
```

---

## Notes:

1. You now have a working example of "Responsive Design" including: Browser Code and Media Query Code(changes background-color when screen width between 450px - 555px).
2. You now have a real and functioning Web Page.
3. These features can be used in other projects.

## FEATURE #5 - Flex Box



Flexbox creates **layouts** within the Web page. With very little code **complex layouts** can be created.

Use the Flexbox with focus on the **Flex Container Properties** and the **Flex Item Properties**.

Flex Container Includes:

1. flex-direction - Ex: **flex-direction: column;**
2. flex-wrap - Ex: **flex-wrap: wrap; flex-wrap: nowrap;**
3. flex-flow - Ex: **flex-flow: row wrap; flex-flow: column wrap;**
4. justify-content - Ex: **justify-content: start; justify-content: center;**
5. align-items - Ex: **align-items: flex-start; align-items: flex-end; align-items: center;**

6. align-content - Ex: `align-content: stretch;` `align-content: flex-start;`

**Flex Item** Includes:

1. order - Ex: `.item2 { order: 0; }`; `.item2 { order: 1; }`

2. flex-grow - Ex: `flex-grow: 0;` ; `flex-grow: 1;`

3. flex-shrink - Ex: `flex-shrink: 1;`

4. flex-basis - Ex: `flex-basis: 100px;`

5. flex - Ex: `flex: 20%;`

6. align-self - Ex: `align-self: center;`

**Observation:** Make changes in the **Flexbox**. See how the **Flexbox** changes.

## **\*\*\* INSTRUCTION and CODE \*\*\***

**Instructions:**

1) Create the two(2) files:

shoeshop.html

shoeshop.css

2) Copy "html text" into the file below:

shoeshop.html

3) Copy "css text" into the file below:

shoeshop.css

4) Place the two(2) files in same directory.

5) Run/Open the "html" file in the browser.

## Code:

html text:

=====

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
  <meta charset="utf-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <!--  
responsive design: browser information to manage the page dimensions and  
scaling-->
```

```
<link href="shoeShop.css" rel="stylesheet" />
```

```
</head>
```

```
<body>
```

```
<header>
```

```
<!--The top and important part of the page. Provides an introduction and  
name to article or company.-->
```

```
<h1>
```

```
Mary's Shoe Store<br />
```

```

```

```

```

```
</h1>
```

```
</header>
```

```
<nav>
```

```
<!--Page menu-->
```

```
<a href="#" onclick="alert('Home Page Here! Coming!');">home</a>
```



```
<a href="#" onclick="alert('About Page Here! Coming!');">about</a>
<a href="#" onclick="alert('Contact Page Here! Coming!');">contact</a>
</nav>
```

```
<section id="container">
  <!--flex container w/ three flex items-->
  <h2>Today's Sales Specials:</h2>
```

```
    <div>  flex item #1 </div>
<!--flex items - add more and see how they fit into the flex container-->
```

```
    <!--<div></div>-->
<!--un comment flex item-->
```

```
    <div class="item2"> flex
item #2 </div>
```

```
    <!--<div></div>-->
<!--un comment flex item-->
```

```
    <div> flex item #3
</div>
```

```
</section>
```

```
<article>
```

```
  <!--page content: article-->
```

```
  <h2>Article: Shoe Care "3" Tips</h2>
```

<ul>

<li> Keep your Shoes Clean </li>

<li> Don't wear the same pair every day </li>

<li> Check your soles and heels often </li>

</ul>

</article>

<aside>

<!--page content: extra and interesting information -->

<h2>Aside: Note</h2>

<p>

<h2>Shoe Design Studio occupies the space between a museum and art studio, in which our shoe designers can truly explore their passions. </h2>

</p>

</aside>

<footer>

<!--footer content: bottom of page containing copyright and company information -->

```
<hr />
```

```
Copyright (C) 2019. All rights reserved.
```

```
</footer>
```

```
</body>
```

```
</html>
```

```
=====
```

## css text:

```
=====
```

```
#container {  
  display: flex; /* flex container */  
  flex-direction: row; /* default */  
  flex-wrap: nowrap; /* default */  
  justify-content: space-between; /* spacing flex items */  
  background-color: azure;  
}
```

```
#container > div { /* container with flex items */  
    width: 100px;  
    height: 110px;  
    border: 2px solid red;  
}
```

```
.item2 {  
    order: 0; /*changes order of flex items*/  
    /*flex-grow: 3;*/ /*grow three times wider than the rest*/  
    /*flex-shrink: 40;*/  
    /*shrink three times more than the rest*/  
    /* flex-basis: 300px; */ /* specifies the initial 30px size of the flex item*/  
    /*flex: 80%;*/ /* specifies the initial size of 50% flex item*/  
    /* align-self: start; */ /*sets alignments for one of the items inside a flexible  
element*/  
}
```

```
header {  
    border-bottom-style: solid;  
}
```

```
h1 {  
    color: black;  
    text-shadow: 2px 2px 4px #000000;  
}
```

```
#shop {  
    width: 150px;  
    height: 150px;  
}
```

```
#truck {  
    margin-left: 300px;  
    width: 100px;  
    height: 100px;  
    transition: all 5s ease-in-out;  
    position: absolute;  
}
```

```
nav {
```

```
font-size: 24px;  
}
```

```
aside {  
    margin-top: 5px;  
    background-color: #f0eaea;  
    padding: 5px;  
    text-align: center;  
    font-style: italic;  
    border: double 3px #b200ff;  
}
```

```
body {  
    margin-left: 100px;  
}
```

=====

## Notes:

1. You now have a working example of "Flex Box." Make changes, delete and update properties and see how the "Layout" changes.
2. You now have a real and functioning Web Page.
3. These features can be used in other projects.
4. There are many more "Flex Box Properties" to assist you with your "Layout." Those properties provided here will get you started. Enjoy the learning.

