

HTML – DOM & ELEMENTS

HTML DOM - (DOCUMENT OBJECT MODEL)

- **HTML DOM** is an Object Model for HTML.
- What is **HTML**?
 - **Hypertext Mark-up Language** is the standard mark-up language for documents designed to be displayed in a web browser.
- What is **DOM**?
 - **Document** just like a file; html file, word file, text file etc.
 - **Object** can be anything you put inside the HTML document; <head> tags, <h1> tags etc.
 - **Model** how you layout the structure.

HTML DOM - (DOCUMENT OBJECT MODEL)

EXAMPLE WEBSITE

Not secure | webdriveruniversity.com/Contact-Us/contactus.html

webdriverUniversity.com (New Approach To Learning)

CONTACT US

Document: index.html

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
<nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
</nav>
```

```
<!-- Page Content -->
<div class="container">
```

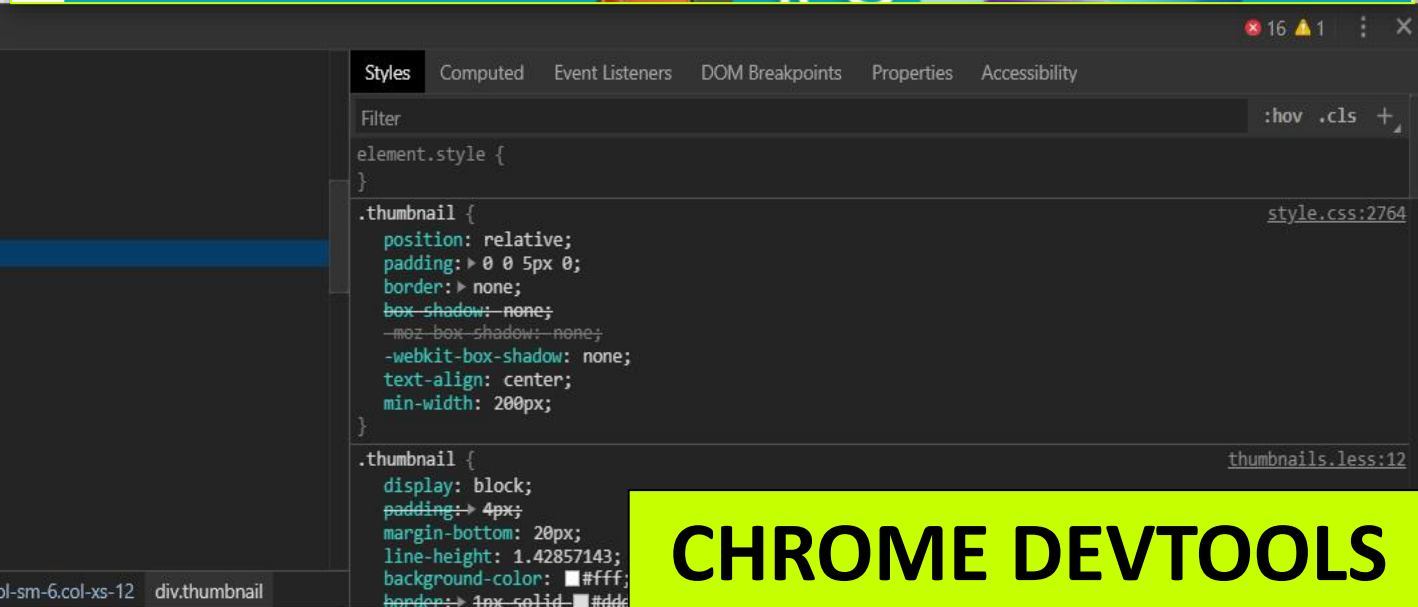
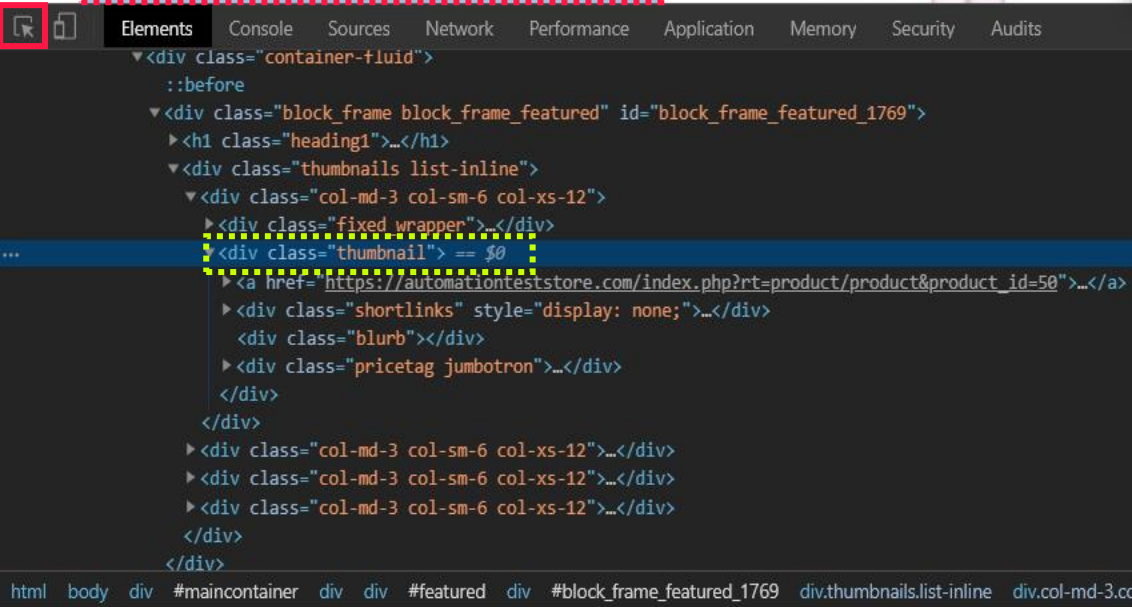
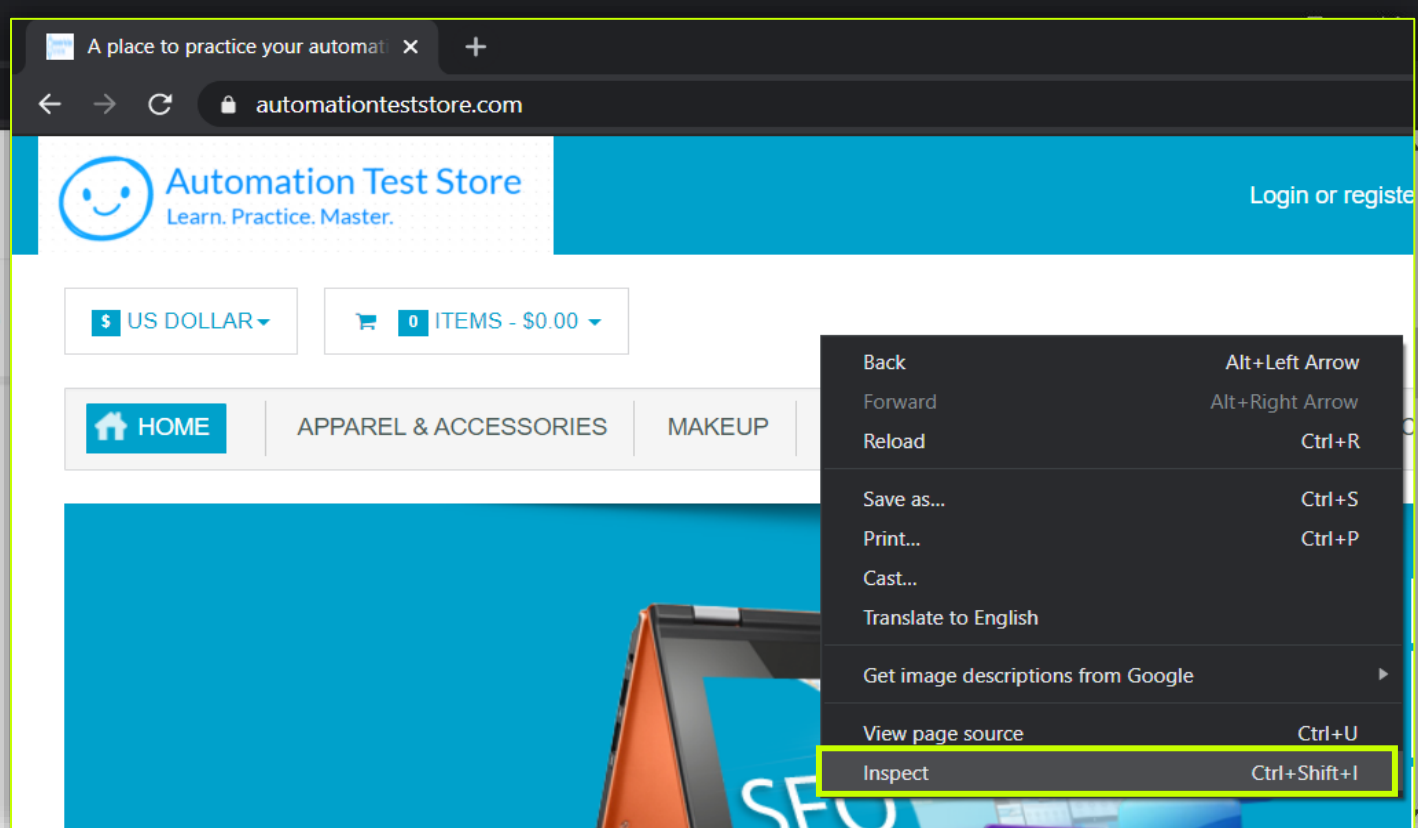
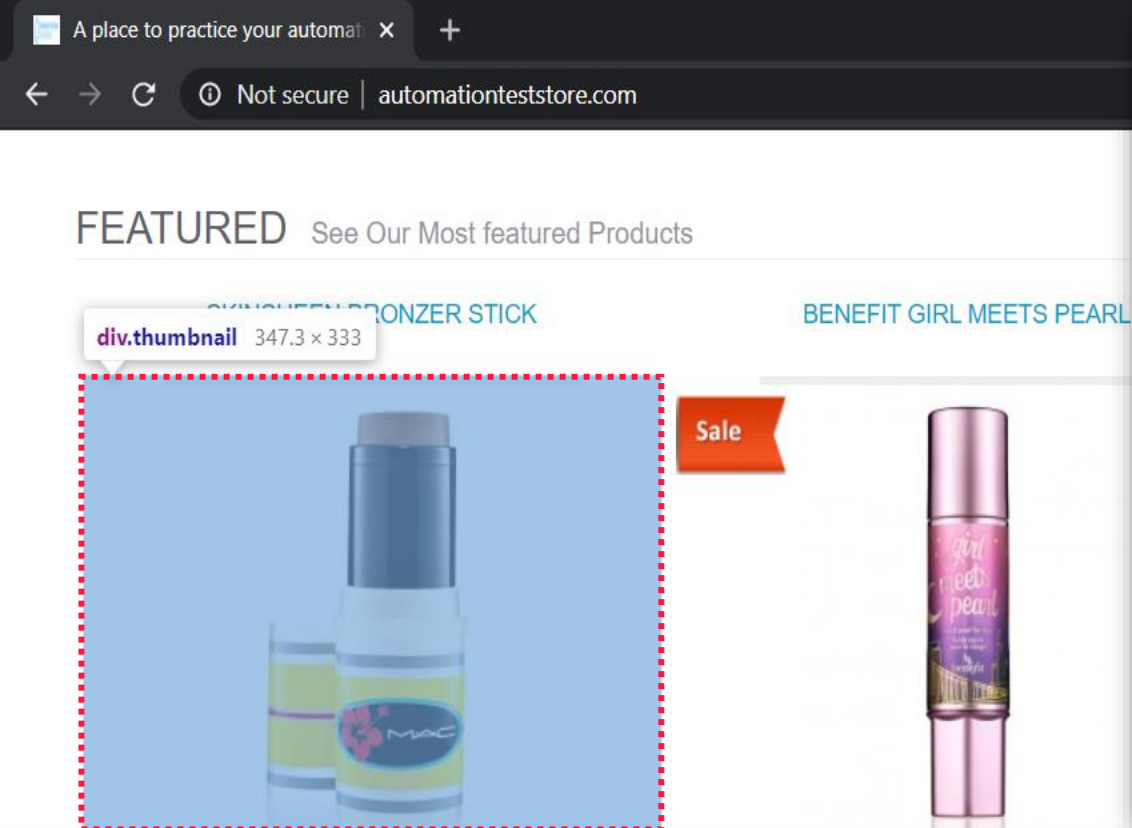
```
<form action="contact_us.php" method="post" id="contact_form">
  <input name="first_name" type="text" class="feedback-input" placeholder="First Name" />
  <input name="last_name" type="text" class="feedback-input" placeholder="Last Name" />
  <input name="email" type="text" class="feedback-input" placeholder="Email Address" />
  <textarea name="message" class="feedback-input" placeholder="Comments"></textarea>
  <div id="form_buttons" class="text-center">
    <input class="contact_button" type="reset" value="RESET" />
    <input class="contact_button" type="submit" value="SUBMIT" />
  </div>
</form>
```

```
</div>
</body>
```

```
</html>
```

Objects: tags

Model



CHROME DEVTOOLS

HTML TAGS - Opening Tags: **<div>** & **<a>**

```
<div class="thumbnail"> == $0
  <a href="https://automationteststore.com/index.php?rt=product/product&product_id=50">
    
  </a>
  <div class="shortlinks" style="display: none;">...</div>
  <div class="blurb"></div>
  <div class="pricetag jumbotron">...</div>
</div>
</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
</div>
```

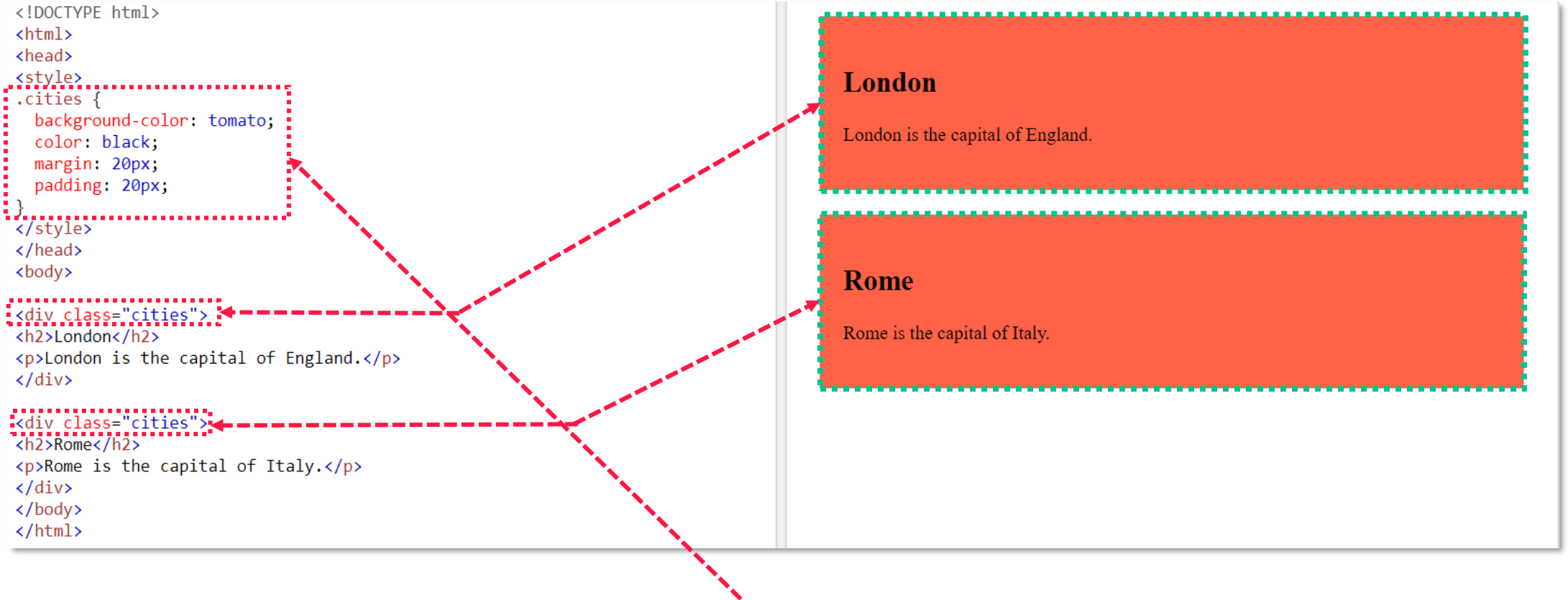
```
<\q{A}>
  <q{A Cj922=„coj-wq-3 coj-2w-e coj-x2-J5„>“<\q{A}>
  <q{A Cj922=„coj-wq-3 coj-2w-e coj-x2-J5„>“<\q{A}>
  <q{A Cj922=„coj-wq-3 coj-2w-e coj-x2-J5„>“<\q{A}>
  <\q{A}>
  <\q{A}>
  <q{A Cj922=„but6698 Jumbotrou">“<\q{A}>
```

HTML TAGS - Closing Tags: `</div>` & ``

```
<div class="thumbnail"> == $0
  <a href="https://automationteststore.com/index.php?rt=product/product&product_id=50">
    
  </a>
  <div class="shortlinks" style="display: none;">...</div>
  <div class="blurb"></div>
  <div class="pricetag jumbotron">...</div>
</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
<div class="col-md-3 col-sm-6 col-xs-12">...</div>
</div>
```

```
<\q?A>
  <q?A CJ922=„coJ-wq-3 coJ-2w-e coJ-x2-J5„>“<\q?A>
  <q?A CJ922=„coJ-wq-3 coJ-2w-e coJ-x2-J5„>“<\q?A>
  <q?A CJ922=„coJ-wq-3 coJ-2w-e coJ-x2-J5„>“<\q?A>
  <\q?A>
  <\q?A>
  <q?A CJ922=„butC6C9B Jumbotrou„>“<\q?A>
```

CLASS ATTRIBUTE



The same class `.cities` is applied to multiple elements.

ID ATTRIBUTE

```
<!DOCTYPE html>
<html>
<head>
<style>
#myHeader {
  background-color: #99ff99;
  color: black;
  padding: 40px;
  text-align: center;
}
</style>
</head>
<body>

<h2>Example id Attribute</h2>
<p>Use CSS to style an element with the id of "myHeader":</p>

<h1 id="myHeader">Cypress</h1>
</body>
</html>
```

Example id Attribute

Use CSS to style an element with the id of "myHeader":

Cypress

HTML ID's use the # tag and can also be applied to given element(s).
ID **#myHeader** has been applied to the h1 header tag.


```

<div class="col-md-3 col-sm-6 col-xs-12"> == $0
  <div class="fixed_wrapper">...</div>
  <div class="thumbnail">
    <a href="https://automationteststore.com/index.php?rt=product/product&product_id=50">
      
    </a>
    <div class="shortlinks" style="display: none;">...</div>
    <div class="blurb"></div>
    <div class="pricetag jumbotron">...</div>
  </div>
  <div class="col-md-3 col-sm-6 col-xs-12">...</div>
  <div class="col-md-3 col-sm-6 col-xs-12">...</div>
  <div class="col-md-3 col-sm-6 col-xs-12">...</div>
</div>
::after
</div>
::after
</section>
<div class="sep"></div>
<section id="latest" class="row mt20">...</section>
<div class="sep"></div>
<section id="bestseller" class="row mt20">...</section>
<div class="sep"></div>
<section id="special" class="row mt20">...</section>

```

Multiple **classes** applied to highlighted html tags.

HTML tags can only contain one **id**.

ID & CLASS ATTRIBUTES

CLASS vs ID

- A **class** selector is a name preceded by a full stop (“.”)
For example: `.subcategories`
- An **ID** selector is a name preceded by a hash character (“#”)
For example: `#homepageHeader`
- The **difference between** an **ID** and a **Class** is that an **ID** can be used to identify one element, whereas a **Class** can be used to identify more than one.

Firstname	Lastname
John	Smith

Elements

Console

Sources

Network

Performance

Application

Memory

Security

Audits

```
<!doctype html>
<html lang="en">
  <head>...</head>
  <body>
    <!-- Navigation -->
    <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">...</nav>
    <!-- Page Content -->
    <div class="container">
      ::before
      <div class="col-sm-12 text-center" id="main-header">...</div>
      <div class="col-sm-12">
        <div class="thumbnail">
          <table id="t01" style="width:100%">
            <tbody>
              <tr>
                <th>Firstname</th>
                <th>Lastname</th>
                <th>Age</th>
              </tr>
              <tr>
                <td>John</td>
                <td>Smith</td>
                <td>45</td>
              </tr>
            </tbody>
          </table>
        </div>
      </div>
    </div>
  </body>
</html>
```

Parent Tag / Element

Child Elements

PARENT & CHILD ELEMENTS

Firstname	Lastname
John	Smith

Elements

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```
<!doctype html>
<html lang="en">
  <head>...</head>
  <body>
    <!-- Navigation -->
    <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">...</nav>
    <!-- Page Content -->
    <div class="container">
      ::before
      <div class="col-sm-12 text-center" id="main-header">...</div>
      <div class="col-sm-12">
        <div class="thumbnail">
          <table id="t01" style="width:100%">
            <tbody>
              <tr>
                <th>Firstname</th>
                <th>Lastname</th>
                <th>Age</th>
              </tr>
              <tr>
                <td>John</td> == $0
                <td>Smith</td>
                <td>45</td>
              </tr>
            </tbody>
          </table>
        </div>
      </div>
    </div>
  </body>
</html>
```

Parent Tag / Element

Sibling Elements

SIBLING ELEMENTS