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A close-up photograph of a person's hands with red-painted fingernails typing on a dark-colored laptop keyboard. The background is slightly blurred.

Web Programming: Introduction to HTML

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Web Programming Components



Client Side



Server Side



The **purposes** of each component



**Web
Application**



Defining **structures** of information



Dynamically **updating** contents



Applying **styles** to contents



Processing information



Storing and fetching data





HTML

Hypertext Markup Language





What is HTML?

“a markup language that
define structures of
information so the information
can be read and interpreted on
various computer machines”

```
<!DOCTYPE html>
<html>
  <head>
    <title>Web Example</title>
  </head>
  <body>
    <header>
      <h1>My Blog</h1>
      <nav>Menu</nav>
    </header>
    <aside>Category</aside>
    <article>
      <section>
        <h1>First Example</h1>
        <p>Good morning people</p>
        <p>Welcome to our blog</p>
      </section>
      <section>
        <h1>Subscribe Form</h1>
        <form>
          <input type="text"
                 placeholder="your email">
          <button>Submit</button>
        </form>
      </section>
    </article>
    <footer>Copyright @aryadharmaadi</footer>
  </body>
</html>
```





What is the **contents** of the HTML?

HTML Element

Opening Tag



<title>

Content



Web Example

Closing Tag



</title>



Tag & Attribute

Opening tag

Attribute name

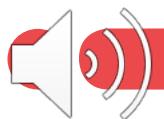
Attribute value

```
<form method="post">
```

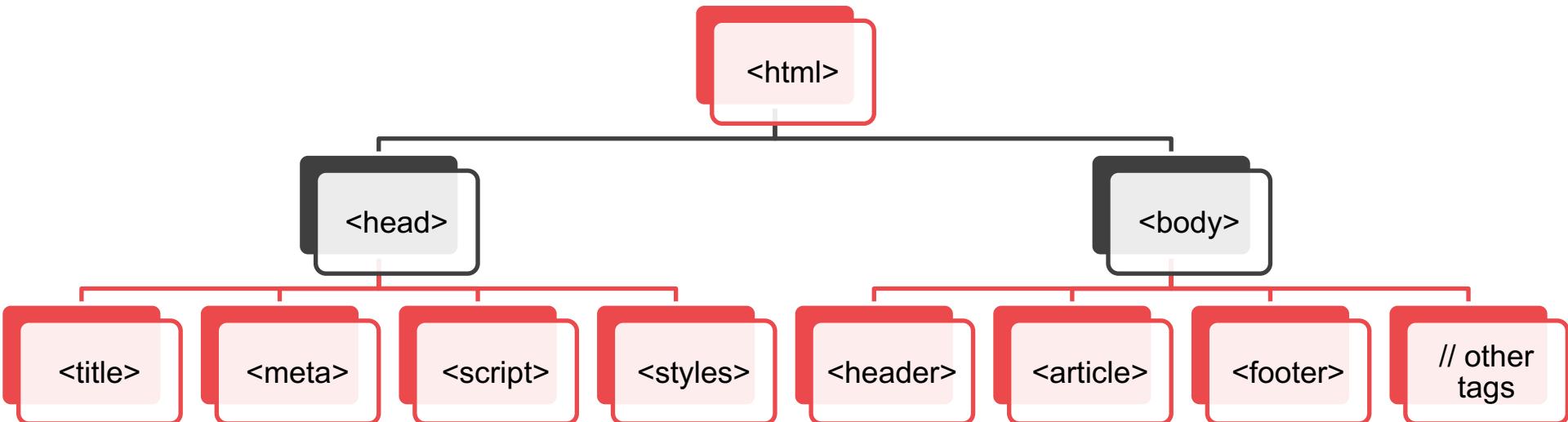
```
    <input type="text">
```

```
</form>
```

Closing tag



HTML Tag Structure



What tags are commonly used in HTML body?

<h1>

For information **heading**

<p>

For creating **paragraph**

<form>

For creating a **form**

<table>

For creating a **table**

<div>

For element **grouping**

<nav>

For menu **navigation**

<header>

For creating **header** section

<footer>

For creating **footer** section

<article>

As **main information**))



How to **get started** to use HTML?



- Create a blank file, name it with .html extension

- Open the file with notepad

- On the top line, write **<!DOCTYPE html>**

- Start HTML code with **<html>** and end with **</html>**

- Start writing the code inside **<html>** element

```
<!DOCTYPE html>
<html>
|
</html>
```



Code Inside HTML Element



HTML Head

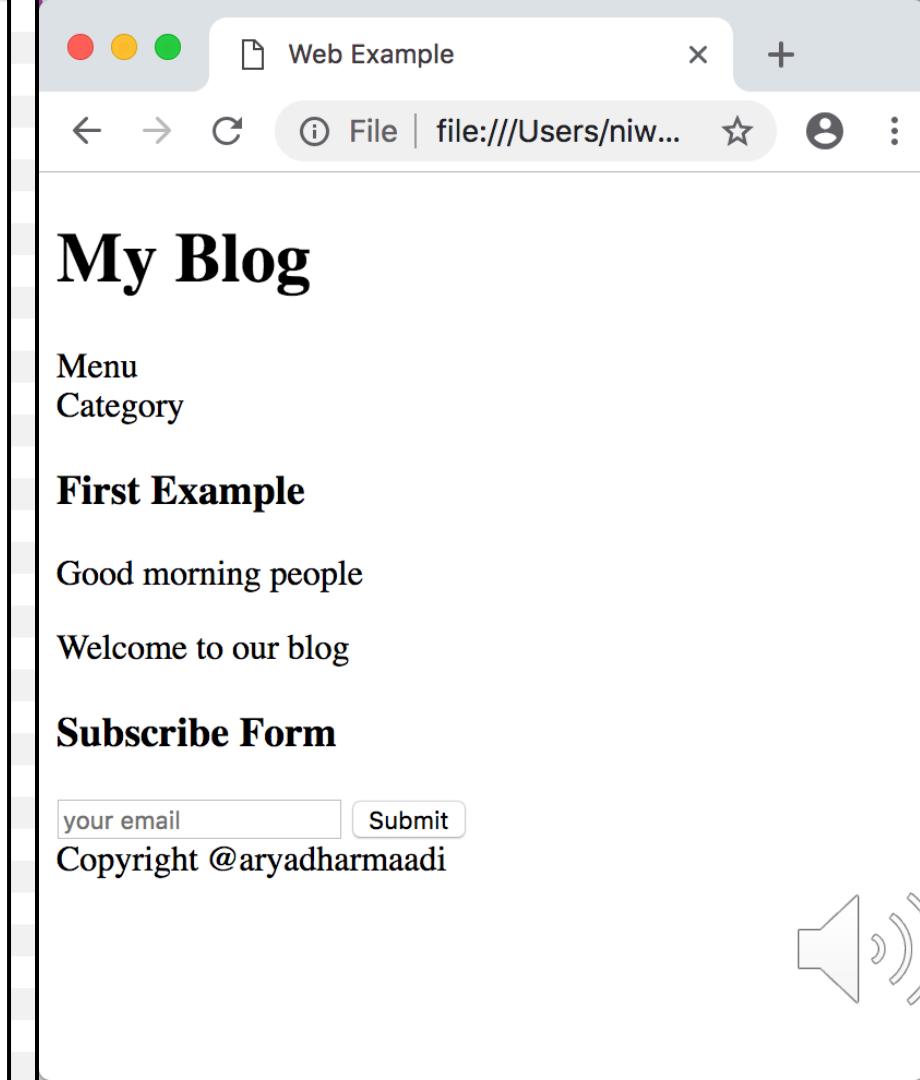
```
<head>
  <meta name="author" content="arya">
  <title>Web Example</title>
  <script> </script>
  <style> </style>
</head>
```

HTML Body

```
<body>
  <!-- What you type here will be
       shown on the web page -->
</body>
```



```
<!DOCTYPE html>
<html>
  <head>
    <title>Web Example</title>
  </head>
  <body>
    <header>
      <h1>My Blog</h1>
      <nav>Menu</nav>
    </header>
    <aside>Category</aside>
    <article>
      <section>
        <h1>First Example</h1>
        <p>Good morning people</p>
        <p>Welcome to our blog</p>
      </section>
      <section>
        <h1>Subscribe Form</h1>
        <form>
          <input type="text"
                 placeholder="your email">
          <button>Submit</button>
        </form>
      </section>
    </article>
    <footer>Copyright @aryadharmaadi</footer>
  </body>
</html>
```



2 Complex Tags

HTML form

First name:

Last name:

E-mail:

- Male
- Female

<form>

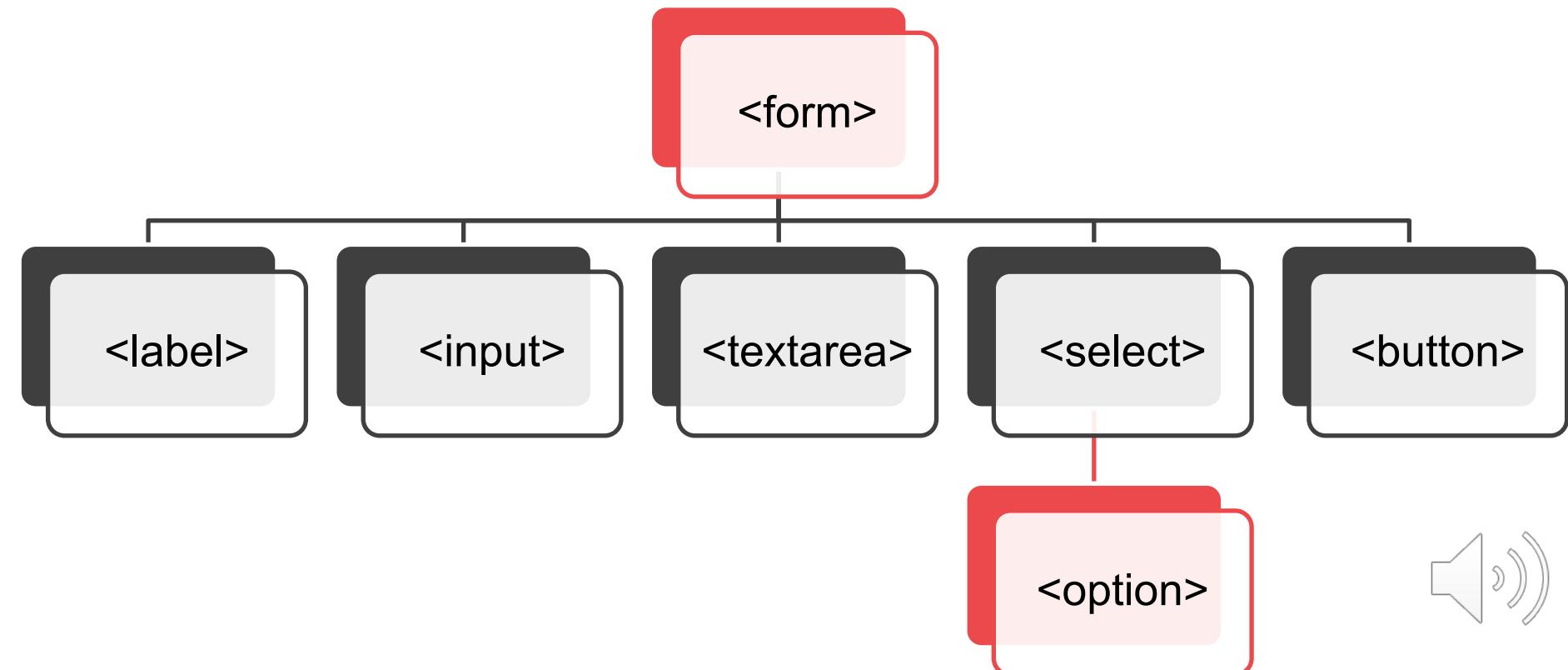
A test table with merged cells

	Average		Red eyes
	height	weight	
Males	1.9	0.003	40%
Females	1.7	0.002	43%

<table>



Form Tag **Structure**





Form Example

```
<h1>Registration Form</h1>
<form>
  <input type="text" placeholder="Full Name">
  <input type="password" placeholder="Password">
  <input type="number" placeholder="Phone">
  <div>
    <label>Gender:</label>
    <input type="radio" name="gender" value="m">Male
    <input type="radio" name="gender" value="f"> Female
  </div>
  <textarea>Address</textarea>
  <select name="nationality">
    <option value="0">--Select Nationality--</option>
    <option value="indo">Indonesian</option>
    <option value="foreign">Foreign</option>
  </select>
  <div>
    <label>Upload ID Card:</label>
    <input type="file">
  </div>
  <button>Submit</button>
</form>
```

Web Example

File | file:///Users/ni...

Registration Form

Full Name Password

Phone

Gender: Male Female

Address

--Select Nationality--

Upload ID Card: Choose File No file chosen

Submit

Speaker icon

Table Tag Structure

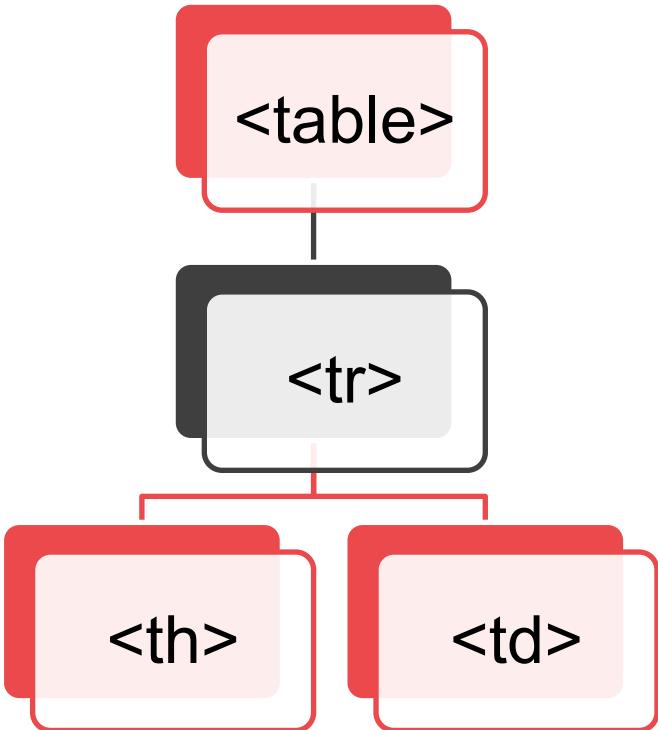
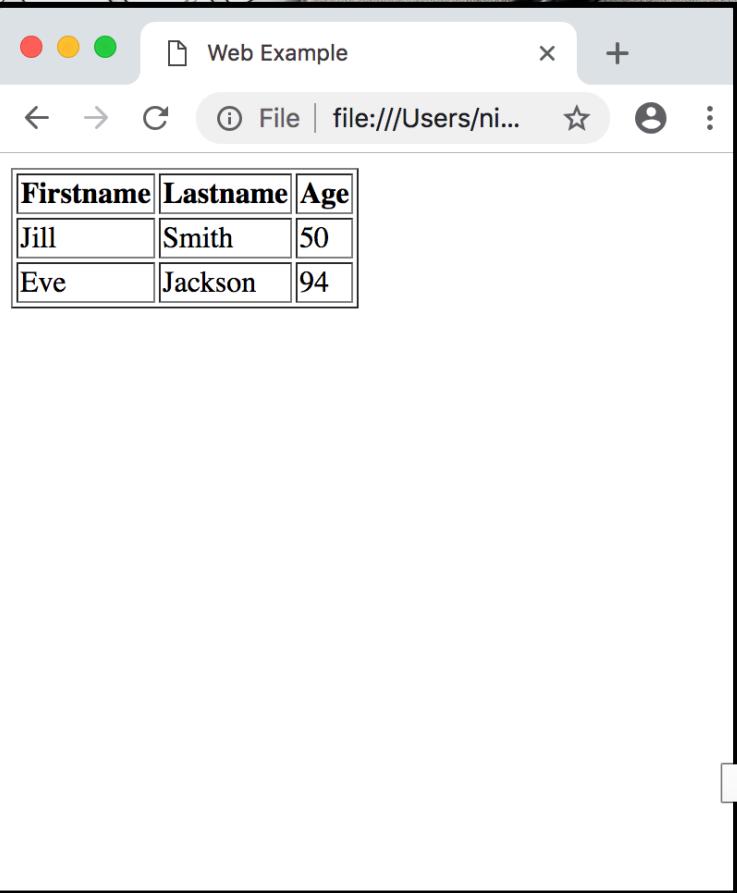


Table Example

```
<table border="1">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
  <tr>
    <td>Eve</td>
    <td>Jackson</td>
    <td>94</td>
  </tr>
</table>
```



A screenshot of a web browser window titled "Web Example". The address bar shows "file:///Users/ni...". The browser displays a simple table with three rows and three columns. The columns are labeled "Firstname", "Lastname", and "Age". The data rows are:

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94

COLSPAN & ROWSPAN



```
<table border="1">
  <tr>
    <td>No</td>
    <td colspan="2">Nama</td>
  </tr>
  <tr>
    <td rowspan="2">1</td>
    <td>Adi</td>
    <td>Putra</td>
  </tr>
  <tr>
    <td>Arya</td>
    <td>Dharmaadi</td>
  </tr>
</table>
```

No	Nama
1	Adi Putra
Arya	Dharmaadi



Conclusion



1. HTML is used to **represent** the web page **structure**
2. Good use of HTML help browsers to **display** web page **correctly**



Next Meeting



CSS



REFERENCES

