



Information Technology Program
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Web Programming:

Introduction to HTML

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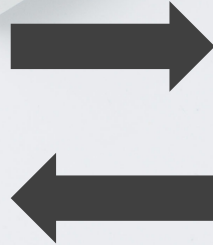




Web Programming Components



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?

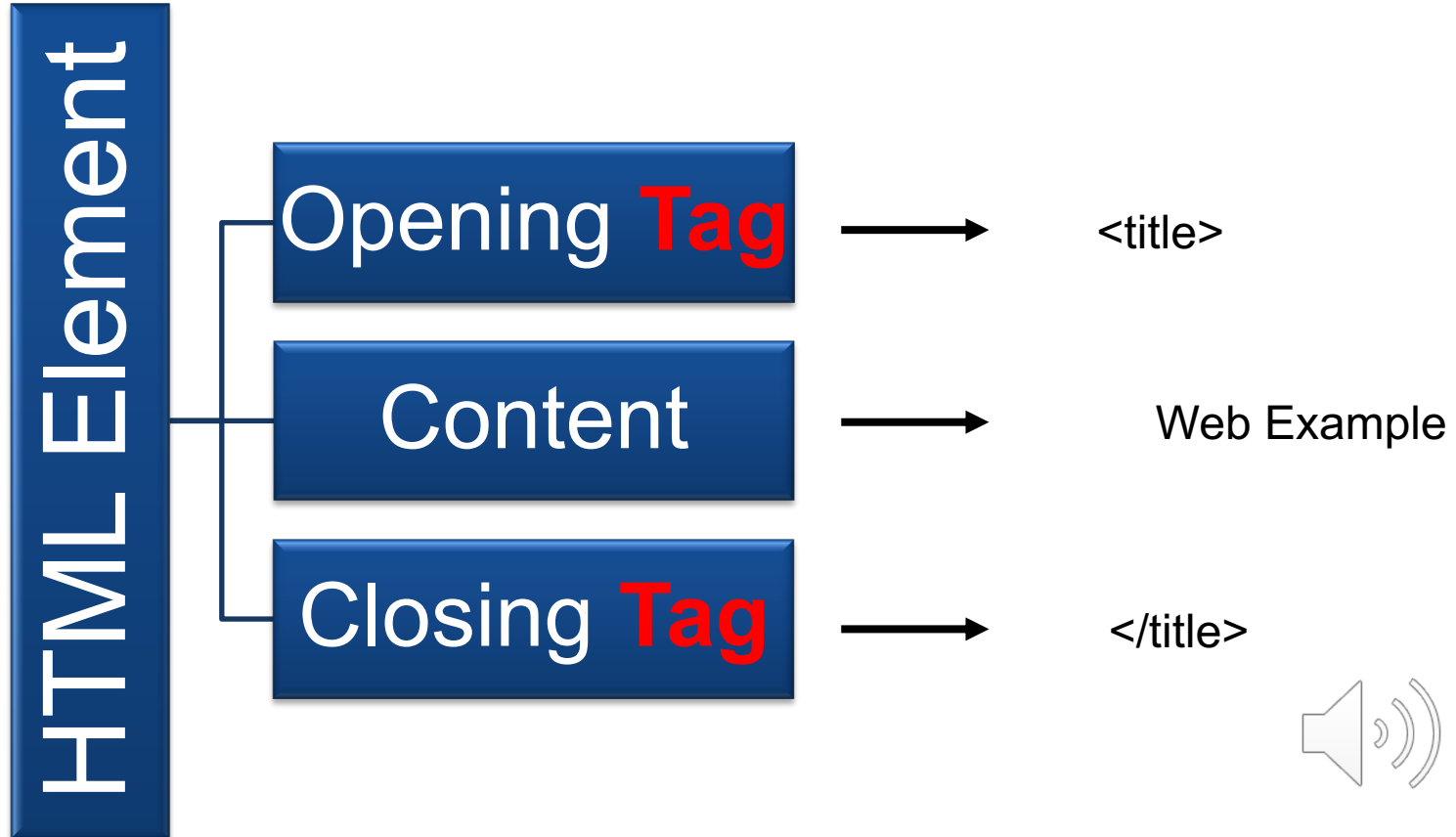
“a markup language that
define structures of
information so the information
can be read and interpreted on
various computer machines”

```
<!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?



Tag & Attribute

Opening tag

Attribute name

Attribute value

<form method="post">

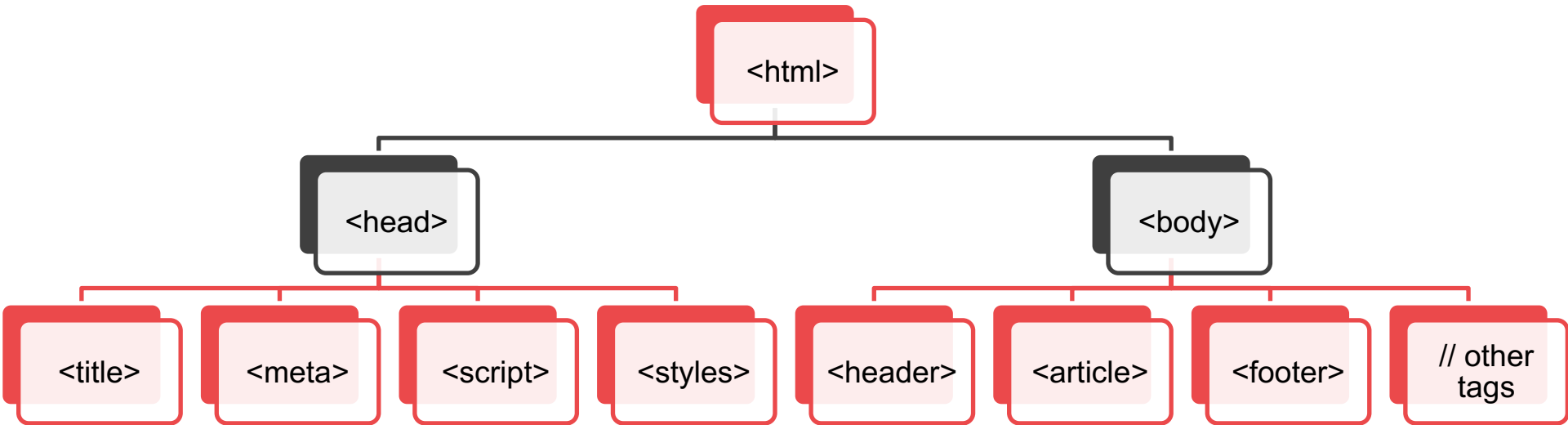
<input type="text">

</form>

Closing tag



HTML Tag Structure



What tags are commonly used in HTML body?

`<h1>`

For information **heading**

`<p>`

For creating **parapgraph**

`<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

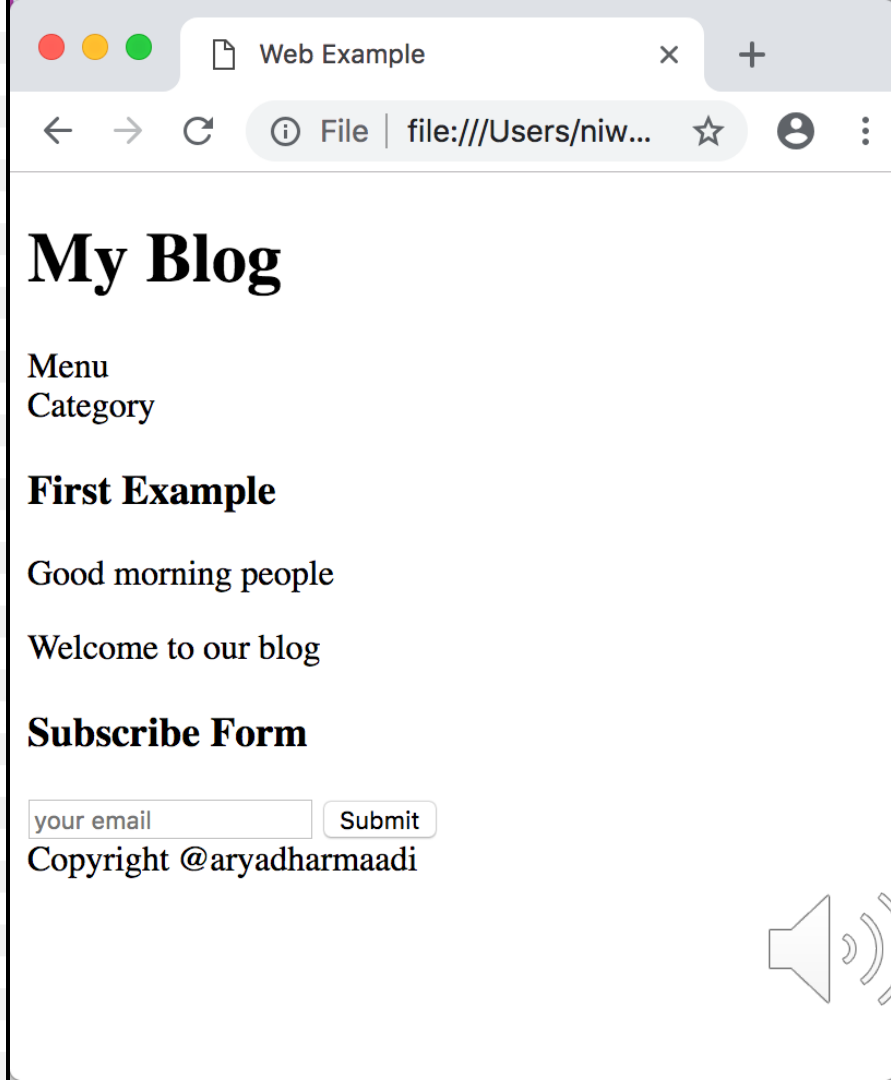
```
<head>  
  <meta name="author" content="arya">  
  <title>Web Example</title>  
  <script> </script>  
  <style> </style>  
</head>
```

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>`

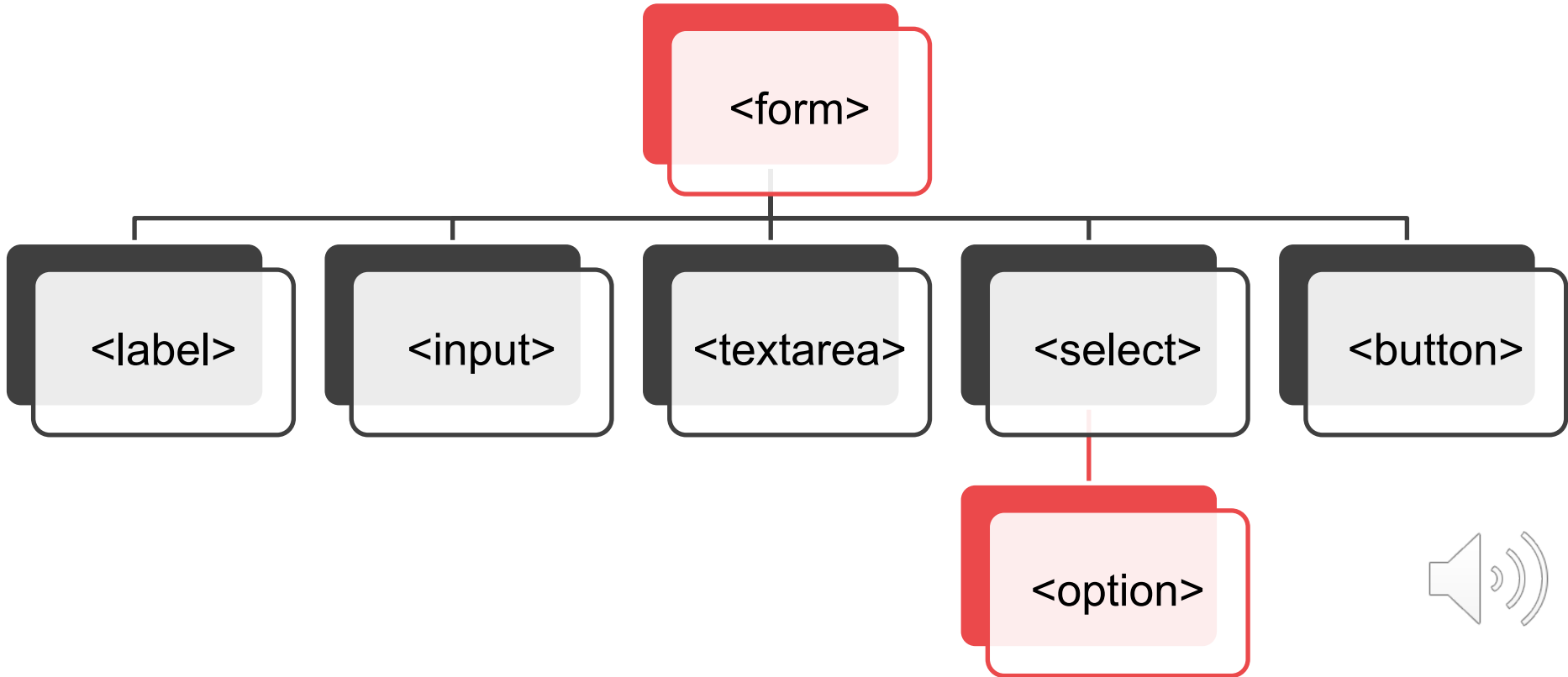
A test table with merged cells

	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>
```

The screenshot shows a web browser window titled "Web Example" with the address bar displaying "file:///Users/ni...". The page content is a registration form with the following elements:

- Registration Form** (Section Header)
- Form fields: Full Name, Password, Phone.
- Gender: ☐ Male ☐ Female
- Address (Text Area)
- Nationality: (Dropdown menu)
- Upload ID Card: No file chosen
-

A speaker icon is visible in the bottom right corner of the browser window.

Table Tag **Structure**

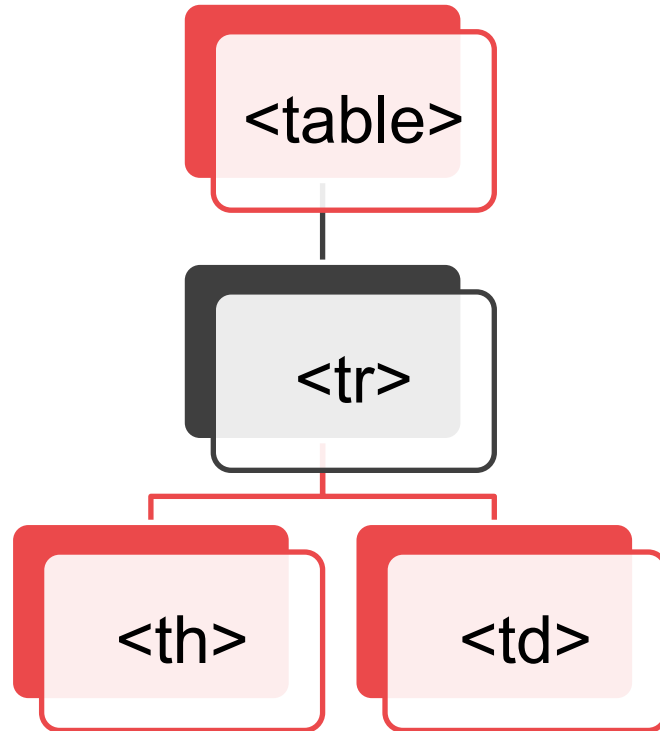


Table Example



```
<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>
```

Web Example

File | file:///Users/ni... ☆ ⓘ

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

