

Front-End Development



Starting HTML

Front-End Development

Front end development is the development of code that creates the visual front-end elements of a software, application or website. Front end languages include **HTML**, **CSS**, and **Javascript**



HTML defines the content of web pages

CSS specifies the layout of web pages

JS programs the behavior of web pages



HTML (Hyper Text Markup Language) is the standard language for creating Web pages. It describes the structure of Web pages.

HTML elements are the building blocks of HTML pages, represented by tags such as: "heading", "paragraph", "table", and so on.

```
<!DOCTYPE html>
<html>
<head>
<title></title>
</head>
<body>
</body>
</html>
```



Make your first web page

```
<!DOCTYPE html>
<html>
  <head>
    <title>Purwadhika</title>
  </head>
  <body>

    Hello World!

  </body>
</html>
```

HTML

`<!DOCTYPE html>`

This declaration appears at the very top of every HTML document and it tells the browser that what follows next is HTML 5

`<head>`

The head tag contains information about the page itself. This includes the page title you see at the top, linking to any external files like CSS and JavaScript files, and additional meta information.

`<body>`

The body tag, on the other hand, is where the main content you will see displayed on your screen resides. You need to put anything you want actually rendered between the body tag.

`<h1 style="color:blue;">Hi!</h1>`

Element

`<h1 style="color:blue;">Hi!</h1>`

Tag

`<h1>`

Attribute

`style`

Attribute Value

`"color:blue;"`

Hi!

Paragraph, Break & Comment

`<p> Ini paragraf 1. </p>`

`<p> Ini paragraf 2. </p>`

`<hr>`

`Ini baris 1
`

`Ini baris 2`

`<!-- Ini komentar -->`

Heading

<h1>	Ini	Heading	1	</h1>
<h2>	Ini	Heading	2	</h2>
<h3>	Ini	Heading	3	</h3>
<h4>	Ini	Heading	4	</h4>
<h5>	Ini	Heading	5	</h5>
<h6>	Ini	Heading	6	</h6>

HTML Text Formatting

<hr>

**** Ini bold **** **
**

**** Ini strong **** **
**

<i> Ini italic **</i>** **
**

**** Ini emphasized **** **
**

<mark> Ini marked **</mark>** **
**

<small> Ini small **</small>** **
**

**** Ini deleted **** **
**

<ins> Ini inserted **</ins>** **
**

_{ Ini subscript **}** **
**

^{ Ini superscript **}** **
**

<hr>

Unordered Lists

```
<h1> Daftar belanja: </h1>
```

```
<ul>
```

```
  <li> Beras </li>
```

```
  <li> Minyak goreng </li>
```

```
  <li> Gula </li>
```

```
  <li> Santan </li>
```

```
  <li> Merica </li>
```

```
  <li> Ikan </li>
```

```
</ul>
```

Unordered Lists

```
<h1> Daftar belanja: </h1>
```

```
<ul type="disc">  
  <li> Beras </li>  
  <li> Minyak goreng </li>
```

```
</ul>
```

```
<ul type="circle">  
  <li> Gula </li>  
  <li> Santan </li>
```

```
</ul>
```

```
<ul type="square">  
  <li> Merica </li>  
  <li> Ikan </li>
```

```
</ul>
```

Ordered Lists

```
<h1> Ranking Kelas X: </h1>
```

```
<ol>
```

```
  <li> Andi </li>
```

```
  <li> Budi </li>
```

```
  <li> Caca </li>
```

```
  <li> Dedi </li>
```

```
  <li> Euis </li>
```

```
  <li> Fafa </li>
```

```
</ol>
```

Ordered Lists

```
<h1> Ranking Kelas X: </h1>
```

```
<ol type="1">
```

```
  <li> Andi </li>
```

```
  <li> Budi </li>
```

```
  <li> Caca </li>
```

```
  <li> Dedi </li>
```

```
  <li> Euis </li>
```

```
  <li> Fafa </li>
```

```
</ol>
```

```
// type="1"/"a"/"A"/"i"/"I"
```

Description Lists

<h1> Glosarium: </h1>

<dl>

<dt> Mikrokontroler </dt>

<dd> xyzxyzxyzxyzxyzxyz </dd>

<dt> Sensor </dt>

<dd> xyzxyzxyzxyzxyzxyz </dd>

<dt> Aktuator </dt>

<dd> xyzxyzxyzxyzxyzxyz </dd>

</dl>

HTML Table

```
<table>
  <tr>
    <th> Nama </th>
    <th> TTL </th>
    <th> Alamat </th>
  </tr>
  <tr>
    <td> Galih </td>
    <td> Jepara, 25 Jan 1992 </td>
    <td> Soditan 02/VI Kramat Jati </td>
  </tr>
  <tr>
    <td> Ratna </td>
    <td> Bandung, 4 Apr 1994 </td>
    <td> Geger Kalong No 45 </td>
  </tr>
</table>
```

Table's Border

```
<!DOCTYPE html>
<html>
<head>
  <title>Purwadhika</title>
  <style>
    table, th, td {
      border: 1px solid black;
      border-collapse: collapse;
    }
  </style>
</head>
<body>

  --- Insert HTML Table from prev slide here! ---

</body>
</html>
```


Column Span

```
<table>
  <tr>
    <th>- Asal -</th>
    <th>- Domisili -</th>
  </tr>
  <tr>
    <td colspan="2"><center>
      Jakarta
    </center></td>
  </tr>
</table>
```

Row Span

```
<table>
  <tr>
    <th rowspan="2">Jakarta</th>
    <td>-   A   -</td>
    <td>-   B   -</td>
  </tr>
  <tr>
    <td>-   C   -</td>
    <td>-   D   -</td>
  </tr>
</table>
```

Absolute Links

<p>

Google

<p>

<a href="https://www.yahoo.com"
target="_blank">

Yahoo

Relative Links

```
<p>
```

```
<a href="satu.html">
```

Halaman Satu

```
</a>
```

```
<p>
```

```
<a href="/index.html"
```

```
target="_blank">
```

Halaman Index

```
</a>
```

ID Links

```
<p>  
<a href="#aku">Klik untuk cari namaku!</a>  
</p>
```

```
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="kau"> Joko </h2>  
<h2 id="aku"> Lintang </h2>
```

Images

```

```

```

```

```

```

Figures & Captions

```
<figure>  
    
  <figcaption>  
    Ini singa  
  </figcaption>  
</figure>
```

SVG *Scalable Vector Graphics*

```
<svg width="200" height="200">  
  <circle cx="100" cy="100" r="80"  
    stroke="red" stroke-width="5"  
    fill="blue" />  
</svg>
```

```
<svg width="400" height="200">  
  <rect x="25" y="25" width="300"  
    height="100"  
    style="fill: rgb(100, 0, 100);  
    stroke-width: 5;  
    stroke: black;">  
</rect></svg>
```


Forms

```
<!DOCTYPE html>
<html>
<head>
    <title>Forms</title>
</head>
<body>
    <form action="" method="post">
        ---- INSERT FORM ELEMENT ----
    </form>
</body>
</html>
```

Input Forms

<p><input type="text">

<p><input type="password" required>

<p><input type="checkbox">

<p><input type="radio">

<p><input type="number" min="1" max="10">

<p><textarea rows="8" cols="64">
Ketik di sini</textarea>

<p><input type="submit" value="OK">

Button

```
<button type="button">
```

OK

```
</button>
```

```
<button type="button"  
onclick="doSomething();">
```

Apply

```
</button>
```

Select Forms

```
<p> Apa warna favoritmu? </p>
```

```
<select>
```

```
  <option> Merah </option>
```

```
  <option> Kuning </option>
```

```
  <option> Hijau </option>
```

```
  <option> Biru </option>
```

```
</select>
```

```
<p> Apa makanan favoritmu? </p>
```

```
<select>
```

```
  <option> Papeda </option>
```

```
  <option> Soto Kwali </option>
```

```
  <option> Sate Padang </option>
```

```
  <option selected> Gudeg </option>
```

```
</select>
```

Option Groups

```
<p>Minuman favoritmu?</p>
```

```
<select>
```

```
  <optgroup label="Jus Buah">
    <option> Jus Apel </option>
    <option> Jus Jeruk </option>
    <option> Jus Mangga </option>
  </optgroup>
```

```
  <optgroup label="Jamu">
    <option> Kencur </option>
    <option> Asem </option>
    <option> Brotowali </option>
  </optgroup>
```

```
</select>
```

Labels

<p>

```
<label for="user">Username:</label>  
<input type="text" name="user">
```

<p>

```
<label for="pass">Password:</label>  
<input type="password" name="pass">
```

Field Sets & Legends

```
<fieldset>
  <legend>Data Diri</legend>

  <p>
    <label for="nama">Nama:</label>
    <input type="text" name="nama">

  <p>
    <label for="usia">Usia:</label>
    <input type="number" name="usia">
</fieldset>
```

Division Tag

The div tag represents a generic container, because it defaults to a block. As a block, it starts on its own new line, similar to how <p> tags work.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Division</title>
  </head>
  <body>
    <div>Division 1</div>
    <div>Division 2</div>
    <div>Division 3</div>
  </body>
</html>
```


Span Tag

The span tag accomplishes the same thing as a div tag except that it is inline, which essentially means that it wraps content but remains inside the same line, and doesn't start on it's own line.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Span</title>
  </head>
  <body>
    <p>Namaku <span>Mr.X</span>
  </body>
</html>
```

Articles & Sections

```
<article>
  <section class="header">
    <h1>Header Artikel</h1>
    <p>Selamat datang!</p>
  </section>
  <section class="main">
    <p>Ini konten utama.</p>
  </section>
  <section class="footer">
    <p>Bye!</p>
  </section>
</article>
```

Main, Headers and Footers

```
<article>
  <header>
    <h1>Header Artikel</h1>
    <p>Selamat datang!</p>
  </header>
  <main>
    <p>Ini konten utama.</p>
  </main>
  <footer>
    <p>Bye!</p>
  </footer>
</article>
```

Asides

```
<article>
  <header>
    <h1>Header Artikel</h1>
    <p>Selamat datang!</p>
  </header>
  <section class="main">
    <p>Ini konten utama.</p>
    <aside>
      <h2>Ini Snippet!</h2>
      <p>Ini teks Snippet</p>
    </aside>
  </section>
  <footer>
    <p>Bye!</p>
  </footer>
</article>
```

Navigation

```
<nav>  
  <ul>  
    <li><a href="#">Home</a></li>  
    <li><a href="#">Blog</a></li>  
    <li><a href="#">News</a></li>  
  </ul>  
</nav>
```

```
<article>  
  --- insert article content here ---  
</article>
```

Front-End Development



Starting HTML