Web Programming #2 HTML

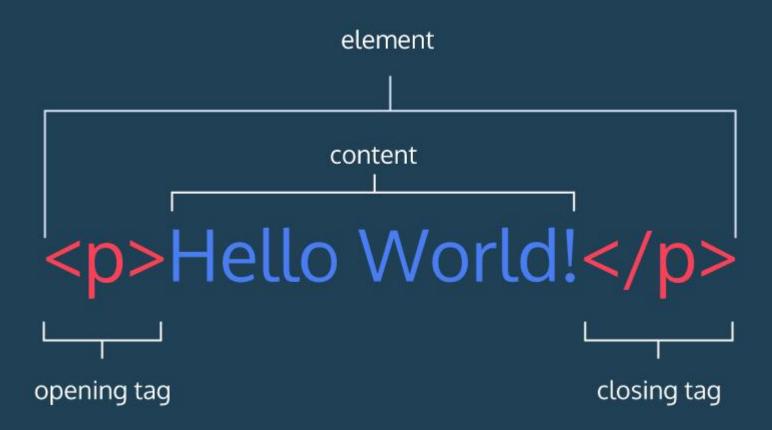


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Introduction HTML

- HTML stands for HyperText Markup Language.
- HTML is the skeleton of all web pages. It's often the first language learned by marketers and designers and is core to front-end development work.
- HTML provides structure to the content appearing on a website, such as images, text, or videos. Rightclick on any page on the internet, choose "Inspect," and you'll see HTML in a panel of your screen.
- You can layer HTML with CSS and JavaScript to create visually compelling and dynamic websites





More tags: https://w3schools.com/tags/

Headings

Division

```
<body>
     <h1>The Brown Bear</h1>
3 * <div>
       <h2>About Brown Bears
       <h3>Species</h3>
6
       <h3>Features</h3>
     </div>
8 *
     <div>
       <h2>Habitat</h2>
       <h3>Countries with Large Brown Bear Populations
10
       <h3>Countries with Small Brown Bear Populations
11 T
12
     </div>
</body>
14
```



Attributes

```
<div id="introduction">
  <body>
      <h1>The Brown Bear</h1>
     <div id="introduction">
                                                          Attribute Value
                                        Attribute Name
       <h2>About Brown Bears</h2>
       <h3>Species</h3>
6 ▼ <h3>Features</h3>
     </div>
<h2>Habitat</h2>
       <h3>Countries with Large Brown Bear Populations</h3>
10 *
11 "
       <h3>Countries with Small Brown Bear Populations
     </div>
12
13 ' <div id="media">
     <h2>Media</h2>
14 *
      </div>
15
                    More attrbutes:
16
    </body>
                    https://developer.mozilla.org/en-US/docs/Web/HTML/Attributes
```

Paragraph

```
<div id="introduction">
    <h2>About Brown Bears</h2>
    The brown bear (Ursus arctos) is native to parts of
northern Eurasia and North America. Its conservation status
is currently Least Concern. There are many subspecies within
the brown bear species, including the Atlas bear and the
Himalayan brown bear. 
   <h3>Species</h3>
   <h3>Features</h3>
    Brown bears are not always completely brown. Some can
be reddish or yellowish. They have very large, curved claws
and huge paws. Male brown bears are often 30% larger than
female brown bears. They can range from 5 feet to 9 feet from
```

head to toe.



Styling & Formatting Text

```
1 * <body>
      <h1>The Brown Bear <em>Ursus arctos</em></h1>
      <div id="introduction">
        <h2>About Brown Bears</h2>
        <strong>Least Concern</strong>

        <h3>Species</h3>
                                                       <h3>Features</h3>
                                                       <strong> - Important text

                                                       (i) - Italic text
      </div>
10
                                                       <em> - Emphasized text
11 ► <div id="habitat"> ··· </div>
                                                       <mark> - Marked text
17 ' <div id="media">
                                                       <small> - Small text
18 *
        <h2>Media</h2>
                                                       <del> - Deleted text
      </div>
19
                                                       <ins> - Inserted text
20
    </body>
                                                       <sub> - Subscript text
                                                       <sup> - Superscript text
21
```

Line Breaks



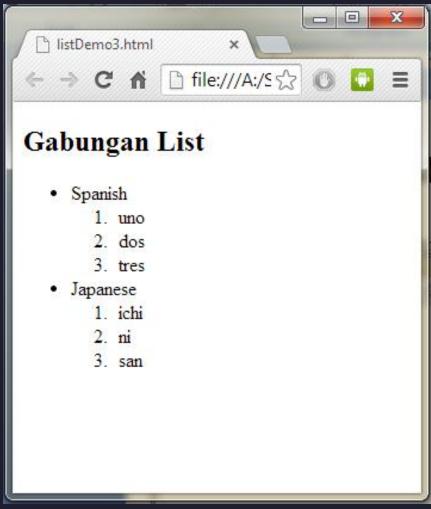
Unordered Lists



Ordered Lists



Lists Exercise



Images

Videos

HTML Standards

```
<!DOCTYPE html>
    <html>
       <head>
         <title>Brown Bears</title>
       </head>
       <body>
         <h1>The Brown Bear</h1>
         <div id="introduction"> ....</div>
         <div id="habitat"> ... </div>
22 +
         <div id="media"> ··· </div>
33 ⊁
       </body>
38
     </html>
39
```



Linking Another Websites

```
<a href="https://en.wikipedia.org/wiki/Brown_bear" target="_blank">
   Learn More</a>
```

Linking Pages



 Bagaimana cara membuat sebuah gambar menjadi link yang dapat di klik.



Comments

```
<!-- This is a comment that the browser will not display. -->
```

Tables

```
18 T
    19 *
     20 "
      Company Name
      Number of Items to Ship
21 *
22 *
      Next Action
23
     24 *
     Adam's Greenworks
25 *
26 ▼
      14
      Package Items
27 *
28
     29
```



Styling Tables

```
<style>
 5
 6
              table {
                border-collapse; collapse;
 8
              }
              table, th, td {
10 "
                border: 1px solid black;
11
                padding: 5px;
12
              }
13
14
         </style>
15
                        place inside <head>
```



Spanning Rows & Cols

```
27 *
28 *
   >
     Monday
29 ₹
     Tuesday
30 ▼
     Wednesday
31 °
   (/tr>
32
33 *
  >
     Out of Town
34 *
    35
36 
                Monday Tuesday
                            Wednesday
                 Out of Town
```



Spanning Rows & Cols - Exercise

Hero		Nemesis
A1	A 2	AB
B1	B2	



```
(thead)
 Quarter
  Revenue
  Costs
 </thead>
Q1
  $10M
  $7.5M
 Q2
  $12M
  $5M
 (tfoot)
 Total
  $22M
  $12.5M
 </tfoot>
```



</select>

<b

</form>

<input type="submit" value="Submit">

Forms

```
<form>
 First name: <br
  <input type="text" name="firstname"><br>
 Last name: <br/>
kbr>
  <input type="text" name="lastname"><br>
  <input type="radio" name="gender"> Male
  <input type="radio" name="gender"> Female<br>
  <textarea name="message" rows="5" cols="22">The cat was playing in the garden.
  <select name="cars">
                                                                   First name:
   <option value="volvo">Volvo</option>
   <option value="saab">Saab</option>
                                                                   Last name:
   <option value="fiat">Fiat</option>
    <option value="audi">Audi</option>
                                                                    Male Female
```

The cat was playing in

the garden.

Volvo ▼

Submit



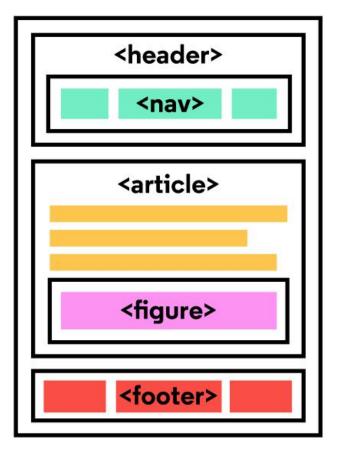
Semantic HTML

Non-Semantic



<div>

Semantic



The word semantic means "relating to meaning," so semantic elements provide information about the content between the opening and closing tags.



Why use Semantic HTML?

- Accessibility: Semantic HTML makes webpages accessible for mobile devices and for people with disabilities as well. This is because screen readers and browsers are able to interpret the code better.
- SEO: It improves the website SEO, or Search Engine Optimization, which is the process of increasing the number of people that visit your webpage. With better SEO, search engines are better able to identify the content of your website and weight the most important content appropriately.
- **Easy to Understand**: Semantic HTML also makes the website's source code easier to read for other web developers.





Semantic HTML: Header & Nav

```
<!DOCTYPE html>
2 * <html>
      <body>
        <div id="header">
                                     <header>
         <h1>Navigational Links</h1>
         <div id="nav">
                                     <nav>
           cu15
             <a href="#home">Home</a>
             <a href="#posts">Posts</a>
             <a href="#contact">Contact</a>
18 *
           11
         </div>
12
       c/div>
13
      </body>
14
    </html>
15:
```



Semantic HTML: Header & Nav

```
<!DOCTYPE html>
 2 * <html>
      <body>
       cheader>
         <h1>Navigational Links</h1>
        <may>
           3015
             <a href="#home">Home</a>
             <a href="#posts">Posts</a>
             <a href="#contact">Contact</a>
10 *
           11:
         </nav>
12
       </header>
13
      </body>
14
    </html>
15
```

Semantic HTML: Main & Footer

```
<!DOCTYPE html>
 2 * <html>
      <body>
       <header>
         <h1>Navigational Links</h1>
         <nav>
          culy
             <a href="#home">Home</a>
             <a href="#posts">Posts</a>
            <a href="#contact">Contact</a>
11
         </nav>
       </header>
13
       <main>
         This is where the main content will go once the page is built out!
       </main>
17
      <footer>
         Contact me at +1 234 567 8910 
       </footer>
22
    </body>
    </html>
```



Semantic HTML: Section, Article & Aside

```
<main>
15 7
           csections
                carticles
17 *
                <h2>Facts About Dogs</h2>
19 *
                   <D>
                   Dogs have a sense of time. It's been proven that they know the difference between a
20
      hour and five. If conditioned to, they can predict future events, such as regular walk times.
21
                  </0>

<
27
                (aside)
                   A study was conducted on dogs being away from their owners for varying hours and
      the studies show that dogs who were away from their owners the longest showed the greatest
      amount of affection!
25
                   K/px
                </aside>
27
              </section>
           </main>
```



Semantic HTML: Figure

```
<figure>
    <img src="dogimage.jpeg"/>
     <figcaption>A cute dog.</figcaption>
</figure>
```