

HTML5

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Reference

▶ W3schools

w3schools.com

▶ HTML5 Foundations – Matt West (2013)



▶ Danang Wahyu Utomo

HTML5 ???

- ▶ The latest revision of HTML
- ▶ New features should be based on HTML, CSS, Javascript
- ▶ Reduce the need for external plugin
- ▶ More markup to replace scripting

Simple Tag

▶ HTML 4

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"  
"http://www.w3.org/TR/html4/strict.dtd">  
<meta http-equiv="content-type"  
content="text/html; charset=utf-8">
```

▶ HTML 5

```
<!DOCTYPE html>  
<meta charset="utf-8">
```

Simple JS & CSS Links

▶ HTML 4

```
<script src="jquery.js" type="text/javascript">  
</script>  
<link href="style.css" type="text/css"></link>
```

▶ HTML 5

```
<script src="jquery.js"> </script>  
<link href="style.css"></link>
```

Tags and Attributes Not Supported in HTML5

▶ **Tags**

 <center> <frame> <frameset> <no frames>
<acronym> <applet> <basefont> <big>

▶ **Attributes**

align, bgcolor, height, width, size, type

New Features

- ▶ New form controls like calendar, date, time, email, url, search
- ▶ New content specific element like : <article>, <header>, <nav>, <section>
- ▶ The <video> and <audio> elements for media playback
- ▶ Support local storage

Browser Support

HTML5 WEB APPLICATIONS

	MAC				WIN							
	 CHROME	 FIREFOX	 OPERA	 SAFARI	 CHROME	 FIREFOX	 OPERA	 SAFARI	 IE			
	5	3.6	10.6	5 4	5 6	3.6 4.02	10.6	5	6 7 8			
Local Storage	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× ×	✓	90%	
Session Storage	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× ×	✓	91%	
Post Message	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× ×	✓	92%	
Offline Applications	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× × ×		77%	
Workers	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× × ×		74%	
Query Selector	✓	✓	✓	✓ ✓	✓ ✓	✓ ✓	✓	✓	× × ×		80%	

Basic

- ▶ Try **<h1>** to **<h6>**

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first
paragraph.</p>

</body>
</html>
```

Exercise

Little Women

by Louisa May Alcott

Published in 1868, *Little Women* follows the lives, loves and tribulations of four sisters growing up during the American Civil War.

The story is based on the childhood experiences Alcott shared with her real-life sisters, Anna, May, and Elizabeth. The novel stars Jo, Meg, Beth, and Amy and explores the rich nuances of family and family relationships.

Links

- ▶ Html links are defined with the tag `<a>` and **href**

```
<a href="second.html">Second Page</a>
```

```
<a href=www.w3schools.com>w3schools</a>
```

Exercise

Little Women

by Louisa May Alcott

Published in 1868, Little Women follows the lives, loves and tribulations of four sisters growing up during the American Civil War. [Next](#)

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HTML Images

- ▶ Html links are defined with the tag `` and **src, width, height**

```

```

HTML Styles

- ▶ Background Color
- ▶ Text Color
- ▶ Fonts
- ▶ Text Size
- ▶ Text Alignment

Background Color

- ▶ Use **background-color** property

```
<!DOCTYPE html>
<html>
<body style="background-color:purple">

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```

Text Color

- ▶ Use **color** property

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<h1 style="color:blue;">My First
Heading</h1>

<p style="color:red;">My first
paragraph.</p>

</body>
</html>
```


Fonts

- ▶ Use **font-family** property

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<h1 style="font-family:tahoma;">My First
Heading</h1>

<p style="font-family:courier;">My first
paragraph.</p>

</body>
</html>
```

Text Size

- ▶ Use **text-size** property

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<h1 style="font-size:30px;">My First
Heading</h1>

<p style="font-size:200%;">My first
paragraph.</p>

</body>
</html>
```

Text Alignment

- ▶ Use **text-align** property

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<h1 style="text-align:center;">My First
Heading</h1>

<p style="text-align:justify;">My first
paragraph.</p>

</body>
</html>
```

HTML Formatting Element

- ▶ Bold text tag ****
- ▶ Italic text tag **<i>**
- ▶ Marked text tag **<mark>**
- ▶ Subscripts text tag **<sub>**
- ▶ Superscripts text tag **<sup>**

HTML Forms

▶ Use **<form>**

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
    form elements
</form>

</body>
</html>
```

- ▶ Form elements are different types of input elements, checkboxes, radio button, submit button

Text Input

► Use `<input type=text>`

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
First Name:
<input type="text" name="firstname">
Last Name:
<input type="text" name="lastname">
</form>

</body>
</html>
```

Text Input using Placeholder

► Use `<input type=text>`

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
First Name:
<input type="text" name="firstname" placeholder="First
Name">
Last Name:
<input type="text" name="lastname" placeholder="Last
Name">
</form>

</body>
</html>
```

Radio Button Input

► Use `<input type=radio>`

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Gender:
<input type="radio" name "gender" value="male">Male<br>
<input type="radio" name "gender" value="female">Female<br>
<input type="radio" name "gender" value="mixmale">Mixmale
</form>

</body>
</html>
```



The Submit Button

► Use `<input type=submit>`

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form Gender:
First Name:
<input type="text" name="firstname">
Last Name:
<input type="text" name="lastname">
<input type="submit" value="Submit">
</form>
</body>
</html>
```



Forms Element

- ▶ Select
- ▶ Textarea



Select Element

► Use select

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form action="second.php">
<select name="country">
    <option value="Indonesia">Indonesia</option>
    <option value="Arab Saudi">Arab Saudi</option>
    <option value="Amerika">Amerika</option>
</select>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

Textarea Element

► Use **textarea**

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form action="second.php">
<textarea name="message" rows=10 cols=30>
    My Name is Maxidena Max
</textarea>
<input type="submit" value="Submit">
</form>
</body>
</html>
```



Input Types

- ▶ Text
- ▶ Password
- ▶ Number
- ▶ Date
- ▶ Color
- ▶ Time
- ▶ Email
- ▶ Search
- ▶ url



Password

▶ <input type="password">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Password:
<input type="password" name="pass">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Number

▶ <input type="number">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Fav. Number:
<input type="number" name="nbr" min="1">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Date

▶ <input type="date">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Birthday:
<input type="date" name="birthday">
<input type="submit" value="Submit">
</form>

</body>
</html>
```


Color

▶ <input type="color">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Color:
<input type="color" name="color">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Time

▶ <input type="time">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Time:
<input type="time" name="utime">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Email

▶ <input type="email">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Name:
<input type="text" name="firstname">
Email:
<input type="email" name="email">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Search

▶ <input type="search">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Search :
<input type="search" name="gsearch">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Url

▶ <input type="url">

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">

<form>
Homepage :
<input type="url" name="upage">
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Video

▶ Using tag **<video>** and **<source>**

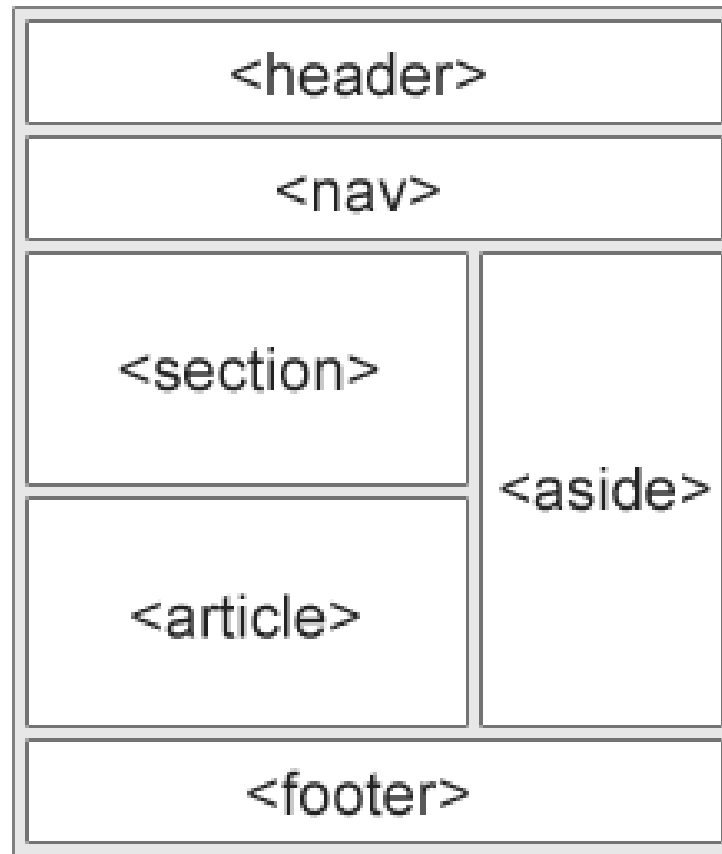
```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">
  <video width="320" height="240" controls autoplay>
    <source src="video.mp4" type="video/mp4">
  </video>
</body>
</html>
```

Audio

▶ Using tag `<audio>` and `<source>`

```
<!DOCTYPE html>
<html>
<body style="background-color:purple;">
  <audio controls>
    <source src="audio.mp3" type="audio/mpeg">
  </audio>
</body>
</html>
```

HTML Layout



Header

- ▶ Defines a header for a document or a section
- ▶ Display logo, search form

```
<header>  
  <h1>Site Name</h1>  
  <h1>Slogan</h1>  
</header>
```

Footer

- ▶ Defines a footer for a document or a section
- ▶ Display information about contact, copyright

```
<footer>  
  <h1>copyright</h1>  
  <h1>sitemap link</h1>  
</footer>
```

Navigation

- ▶ Defines a container for navigation links
- ▶ Display links of website menu

```
<nav>
  <ul>
    <li>copyright</li>
    <li>sitemap link</li>
  </ul>
</nav>
```

Section

- ▶ Defines a block / section of document
- ▶ Create specific area of page

```
<section>
  <h1>Title</h1>
  explanation part...
</section>
```

Article

- ▶ Defines independent self-contained article
- ▶ Display information about news, magazine, comment

```
<article>
  <h1>Learning HTML5</h1>
  HTML is a core technology markup language
of the internet used for structuring and
presenting content for the WWW
</article>
```

Aside

- ▶ Defines content aside from the content. Usually called sidebar
- ▶ Display menu, link, category of page

```
<aside>
  <h1>HTML5 Menu</h1>
  <ul>
    <li><a href="#">HTML Forms</a></li>
    <li><a href="#">HTML Layout</a></li>
  </ul>
</aside>
```

Example

`<header>`

`<nav>`

`<section>`

`<article>`

`<article>`

`<aside>`

`<footer>`

