

Web Application Development

An Introduction To

<HTML>

{ CSS }

Browser Anatomy

- Browser
 - Address Bar
 - Panel
 - Protocol (HTTP, HTTPS | FTP, WS, WSS)
- Browser Built-in Content Parser
 - Text / HTML / XML (NOT jsp/servlet/php/cgi/asp/.net etc...)
 - CSS
 - Image (gif / jpg / png) NOT bmp / tiff
 - Javascript

HTML

```
<!DOCTYPE HTML>
```

```
<html>
```

```
  <head>
```

```
    </head>
```

```
  <body>
```

```
    </body>
```

```
</html>
```

HTML - DOCTYPE

HTML 5

- **<!DOCTYPE HTML>**

HTML 4.01 **Frameset**: This DTD is equal to HTML 4.01 Transitional, but allows the use of frameset content

- `<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">`
<http://www.quackit.com/html/examples/frames/>

HTML 4.01 **Transitional**: INCLUDING presentational and deprecated elements (like font). But NO Framesets

- `<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">`

HTML 4.01 **Strict**: does NOT INCLUDE presentational or deprecated elements (like font). Framesets are not allowed

- `<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">`

HTML - HEAD

```
<head>
  <!-- comment -->

  <meta charset="utf-8"> <!-- HTML5 -->
  <meta http-equiv="content-type" content="text/html; charset=utf-8" /> <!-- HTML4 -->

  <meta http-equiv="content-language" content="en-us" />

  <meta http-equiv="X-UA-Compatible" content="IE=edge" />

  <meta http-equiv="cache-control" content="no-cache" />
  <meta http-equiv="pragma" content="no-cache" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <meta name="keywords" content="" />
  <meta name="description" content="" />
  <meta name="author" content="" />
  <meta name="robot" content="noindex, nofollow" />

  <title> Page Title </title>

  <link rel="stylesheet" type="text/css" href="css/bootstrap.css" />
  <link rel="stylesheet" type="text/css" href="css/bootstrap-responsive.css" />

  <style>
    /* inline-style : NOT recommended */
  </style>

  <script>
    // NOT recommended in head
  </script>
</head>
```

HTML - BODY

<DIV>

 |

<TABLE>

<TR>

<TH> | <TD>

<FORM>

<INPUT type="...">

TEXT | PASSWORD | CHECKBOX | RADIO | HIDDEN

<TEXTAREA>

<SELECT>

<OPTION>

<a> <button>

HTML - Body

<h1> .. <h6>

<p>

<label>

<hr>

<table>, <thead>, <tbody>, <tfoot>

<pre>

<blockquote>

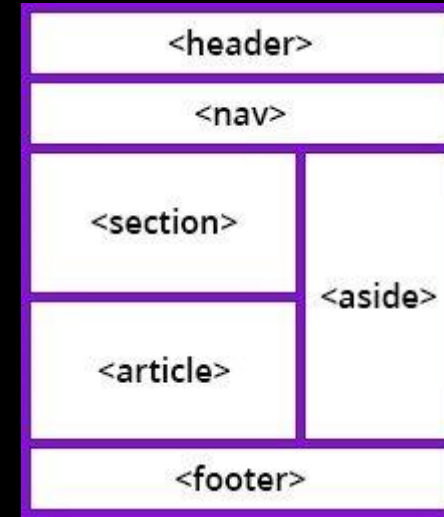
, <i>, <u>

<fieldset>

 © etc...

HTML - 5

- `<main>`
- `<header>`
- `<nav>`
- `<section>`
- `<article>`
- `<aside>`
- `<footer>`
- `<figure>`
- `<figcaption>`
- `<dialog>`
- `<details>`
- `<summary>`
- `<mark>`
- `<progress>`



https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5/HTML5_element_list

<https://www.qhmit.com/html/tutorial/introduction.cfm>

<https://www.qhmit.com/html/tags/>

<https://www.html-5-tutorial.com/all-html-tags.htm>

<https://www.bitdegree.org/learn/html5-tags>

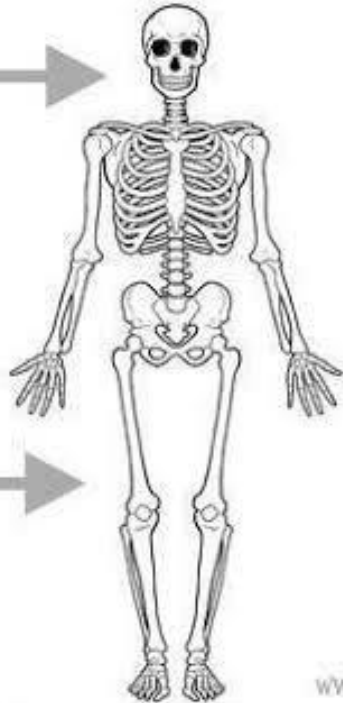
ELEMENT ATTRIBUTES

- name="value" pair within element TAG
 - class
 - id
 - name
 - type
 - value
 - (checked, selected, disabled, multiple, readonly)
- Mandatory Attributes
 - → alt
 - <FORM> → id
 - <FORM ELEMENTS> → type*, name, value

HTML

HTML with CSS

HEAD



BODY



Structural Layer

WWW.FACEBOOK.COM/EMBEDDED.ART/

APPEARANCE



LOOK



Presentation Layer

style / css

property:value pair

```
/*This is a comment*/
```

```
p
{ text-align:center;
  /*This is another comment*/
  color:black;
  font-family:arial;
}
```

```
.align-right
{ text-align: right;
}
```

```
#company-logo
{ background-image:url('../img/unisys-logo.png');
}
```