

ATTEND NO 1

COMPLETE WEB DESIGNING CURRICULUM

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HTML 4 & 5 (Contains Elements/Tags)

HTML stands for “Hyper Text Markup Language”. “Hyper Text is a highlighted text that links from one document to another document and Markup means placing the text in between tags so that each tag tells how to render the text on browser”. HTML is mainly meant for 3 purposes.

- a) To format rich text documents that run cross compatibly on all web browsers.
- b) To design rich looking web pages
- c) To prepare forms to accept user filled data and to submit it to web server to store or retrieve data to and from server side databases.

HTML is developed by “Tim Berners-Lee” while working at CERN (The European Organization for Nuclear Research) in late 1991. Since 1996, the HTML specifications have been maintained, with input from commercial software vendors, by the **World Wide Web Consortium (W3C)**. However, in 2000, HTML also became an international standard. HTML 4.01 was published in late 1999, with further errata published through 2001. In 2004, development began on HTML5 in the Web Hypertext Application Technology Working Group (WHATWG), which became a joint deliverable with the W3C in 2008, and completed and standardized on 28 October 2014.

HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.0.1	1999
XHTML	2000
HTML 5	2014

CSS 1, 2, 3 (Selectors, Properties, Values, Pseudo Properties)

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Selectors selects elements in the HTML document using tag, class, id, pseudo, attribute selectors using { } symbol. After selecting element we need to apply CSS properties. CSS properties such as

background, font, text, margin, padding, position etc to name few. Browser renders HTML elements based on CSS properties applied on it. To most of the CSS properties, values are predefined. CSS mainly separates **HTML page styling** from the **text placed in HTML**. CSS 3 includes animations and effects also. CSS is developed by **Hakon Wium Lie, Bert Bos** at W3C in 1996.

JavaScript (Events, Objects, Functions)

Often abbreviated as “JS” is a **high level** (deal with **variables, arrays, objects, complex arithmetic or boolean expressions, subroutines and functions, loops, threads, locks etc**), **dynamic** (executes at runtime), **untyped, interpreted runtime language**. Its maintain intention is to add events on HTML tags listed below, calls a function when event is fired. In the functions we can retrieve HTML element values, we can **manipulate, validate** values and again re-renders on browser. It contains classes such as “**Window, String, Number, Date, Math, Array, Boolean, RegExp, XMLHttpRequest, ActiveXObject, HTMLDOM, XMLDOM**”. Each class is having functions and properties. With the help of **AJAX functionality** we can submit the data to server asynchronously, process on server and can get the response back to browser. In JavaScript a HTML element can be retrieved using `document.getElementById()`, `document.getElementsByTagName()` functions.

jQuery (Selectors, Events, Functions, Animations, AJAX)

jQuery simplifies JavaScript coding such as

In JS:

```
var target = document.getElementById( "target" );
target.innerHTML = "<td>Hello <b>World</b>!</td>";
```

In jQuery:

```
$("#target").html("<td>Hello <b>World</b>!</td>");
```

With ease of use selectors we can select elements, we can apply HTML on text, retrieve HTML applied on text, add CSS properties to HTML elements, retrieve CSS properties, and we can apply HTML DOM on elements such as `after()`, `before()`, `add()`, `remove()` etc.

```
<div class="grandparent">
  <div class="parent">
    <div class="child">
      <span class="subchild"></span>
    </div>
  </div>
  <div class="surrogateParent1"></div>
  <div class="surrogateParent2"></div>
</div>
```

```
// Selecting an element's direct parent:
```

```
// returns [ div.child ]
$( "span.subchild" ).parent();
```

```
// Selecting all the parents of an element that match a given selector:
```

```
// returns [ div.parent ]
$( "span.subchild" ).parents( "div.parent" );
```

```
// returns [ div.child, div.parent, div.grandparent ]
```

```

$( "span.subchild" ).parents();

// Selecting all the parents of an element up to, but *not including* the
selector:

// returns [ div.child, div.parent ]
$( "span.subchild" ).parentsUntil( "div.grandparent" );

// Selecting the closest parent, note that only one parent will be selected
// and that the initial element itself is included in the search:

// returns [ div.child ]
$( "span.subchild" ).closest( "div" );

// returns [ div.child ] as the selector is also included in the search:
$( "div.child" ).closest( "div" );

// Selecting an element's direct children:

// returns [ div.parent, div.surrogateParent1, div.surrogateParent2 ]
$( "div.grandparent" ).children( "div" );

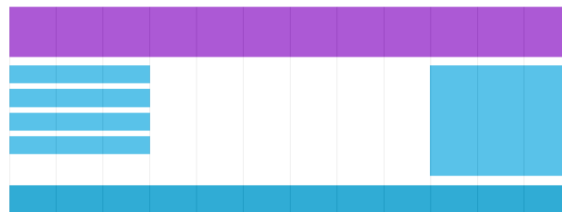
// Finding all elements within a selection that match the selector:

// returns [ div.child, div.parent, div.surrogateParent1,
div.surrogateParent2 ]
$( "div.grandparent" ).find( "div" );

```

Bootstrap (Classes)

Bootstrap is an open source front-end web framework for designing websites. It contains reusable classes that can be directly applied on HTML elements without writing custom CSS code. Bootstrap 240 predefined classes are given below. With help of Bootstrap we can prepare HTML Layouts which are Responsive to any type of device such as cell phones (extra small devices, 768px, xs-*), tablets (small devices, 768-991px, sm-*), desktops (medium sized devices, 992-1199px, md-*), wide screen monitors (large devices, 1200px above, lg-*) with any dimension. It organizes entire page into 12 column and has a total width of 100% and will shrink and expand as you resize the browser window. Bootstrap is having predefined themes “Simply Me”, “Company”, “Band”. Bootstrap is developed at Twitter by “Mark Otto”, “Jacob Thornton”.



AngularJS (Directives, Modules, Controller, \$scope, Filters, Expressions, Validators, Services, Factories, Dependency Injection, Data Binding, Includes, Routing)

AngularJS is an open source web application framework. It was originally developed in 2009 by Misko Hevery and Adam Abrons. It is now maintained by Google.

AngularJS Directives

ng-app

Declares the root element of an AngularJS application, under which directives can be used to declare bindings and define behavior.

ng-bind

Sets the text of a DOM element to the value of an expression. For example, `` displays the value of 'name' inside the span element. Any change to the variable 'name' in the application's scope reflect instantly in the DOM.

ng-model

Similar to ng-bind, but establishes a two-way data binding between the view and the scope.

ng-model-options

Provides tuning for how model updates are done.

ng-class

Lets class attributes be dynamically loaded.

ng-controller

Specifies a JavaScript controller class that evaluates HTML expressions.

ng-repeat

Instantiate an element once per item from a collection.

ng-show & ng-hide

Conditionally show or hide an element, depending on the value of a boolean expression. Show and hide is achieved by setting the CSS display style.

ng-switch

Conditionally instantiate one template from a set of choices, depending on the value of a selection expression.

ng-view

The base directive responsible for handling routes^[12] that resolve JSON before rendering templates driven by specified controllers.

ng-if

Basic if statement directive that instantiates the following element if the conditions are true. When the condition is false, the element is removed from the DOM. When true, a clone of the compiled element is re-inserted.

ng-aria

A module for accessibility support of common [ARIA attributes](#).

ng-animate

A module provides support for JavaScript, CSS3 transition and CSS3 keyframe animation hooks within existing core and custom directives.

ng-table

Simple table with sorting and filtering on AngularJS^[13]

Since **ng-*** attributes are not valid in HTML specifications, **data-ng-*** can also be used as a prefix. For example, both **ng-app** and **data-ng-app** are valid in AngularJS.

HTML Elements (116)

<!-...-->,<!DOCTYPE>,<a>,<abbr>,<address>,<area>, <article>, <aside>, <audio>, ,<base>, <bdi>,<bdo>, <blockquote>,<body>,
,<button>, <canvas>,<caption>, <cite>,<code>, <col>,<colgroup>, <data>,<datalist>, <dd>,, <details>,<dfn>, <dialog>,<div>, <dl>,<dt>, ,<embed>, <fieldset>,<figcaption>, <figure>,<footer>, <form>,<h1>, <h2>,<h3>, <h4>,<h5>, <h6>,<head>, <header>,<hgroup>, <hr>,<html>, <i>,<iframe>, , <input>, <ins>, <kbd>, <keygen>, <label>, <legend>, , <link>, <main>, <map>, <mark>, <menu>, <menuitem>, <meta>, <meter>, <nav>, <noscript>, <object>, , <optgroup>, <option>, <output>, <p>, <param>, <pre>, <progress>, <q>, <rb>, <rp>, <rt>, <rtc>, <ruby>, <s>, <samp>, <script>, <section>, <select>, <small>, <source>, , , <style>, <sub>, <summary>, <sup>, <table>, <tbody>, <td>, <template>, <textarea>, <tfoot>, <th>, <thead>, <time>, <title>, <tr>, <track>, <u>, , <var>, <video>, <wbr>

HTML-JavaScript Events (73 Events)

Window Events: 15

[onafterprint](#), [onbeforeprint](#), [onbeforeunload](#), [onerror](#), [onhashchange](#), [onload](#), [onmessage](#), [onoffline](#), [ononline](#), [onpagehide](#), [onpageshow](#), [onpopstate](#), [onresize](#), [onstorage](#), [onunload](#)

Form Events: 10

[onblur](#), [onchange](#), [oncontextmenu](#), [onfocus](#), [oninput](#), [oninvalid](#), [onreset](#), [onsearch](#), [onselect](#), [onsubmit](#)

Keyboard Events: 3

[onkeydown](#), [onkeypress](#), [onkeyup](#)

Mouse Events: 9

[onclick](#), [ondblclick](#), [onmousedown](#), [onmousemove](#), [onmouseout](#), [onmouseover](#), [onmouseup](#), [onmousewheel](#), [onwheel](#)

Drag Events: 8

[ondrag](#), [ondragend](#), [ondragenter](#), [ondragleave](#), [ondragover](#), [ondragstart](#), [ondrop](#), [onscroll](#)

Clipboard Events: 3

[oncopy](#), [oncut](#), [onpaste](#)

Media Events: 23

[Onabort](#), [oncanplay](#), [Oncanplaythrough](#), [oncuechange](#), [Ondurationchange](#), [onemptied](#), [Onended](#), [onerror](#), [Onloadeddata](#), [onloadedmetadata](#), [Onloadstart](#), [onpause](#), [Onplay](#), [onplaying](#), [Onprogress](#), [onratechange](#), [Onseeked](#), [onseeking](#), [Onstalled](#), [onsuspend](#), [Ontimeupdate](#), [onvolumechange](#), [Onwaiting](#)

Misc Events: 2

[onshow](#), [ontoggle](#)

CSS Properties (369)

CSS Property Groups

Color	Table	Paged Media
Background and Borders	Lists and Counters	Generated Content
Basic Box	Animation	Filter Effects
Flexible Box	Transform	Image/Replaced Content
Text	Transition	Masking
Text Decoration	Basic User Interface	Speech
Fonts	Multi-column	Marquee
Writing Modes		

Color Properties: 2

[color](#), [opacity](#)

Background and Border Properties: 43

[background](#), [background-attachment](#), [background-blend-mode](#), [background-color](#), [background-image](#), [background-position](#), [background-repeat](#), [background-clip](#), [background-origin](#), [background-size](#), [border](#), [border-bottom](#), [border-bottom-color](#), [border-bottom-left-radius](#), [border-bottom-right-radius](#), [border-bottom-style](#), [border-bottom-width](#), [border-color](#), [border-image](#), [border-image-outset](#), [border-image-repeat](#), [border-image-slice](#), [border-image-source](#), [border-image-width](#), [border-left](#), [border-left-color](#), [border-left-style](#), [border-left-width](#), [border-radius](#), [border-right](#), [border-right-color](#), [border-right-style](#), [border-right-width](#), [border-style](#), [border-top](#), [border-top-color](#), [border-top-left-radius](#), [border-top-right-radius](#), [border-top-style](#), [border-top-width](#), [border-width](#), [box-decoration-break](#), [box-shadow](#)

Basic Box Properties: 31

[bottom](#), [clear](#), [clip](#), [display](#), [float](#), [height](#), [left](#), [margin](#), [margin-bottom](#), [margin-left](#), [margin-right](#), [margin-top](#), [max-height](#), [max-width](#), [min-height](#), [min-width](#), [overflow](#), [overflow-x](#), [overflow-y](#), [padding](#), [padding-bottom](#), [padding-left](#), [padding-right](#), [padding-top](#), [position](#), [right](#), [top](#), [visibility](#), [width](#), [vertical-align](#), [z-index](#)

Flexible Box Layout Properties: 12

[align-content](#), [align-items](#), [align-self](#), [flex](#), [flex-basis](#), [flex-direction](#), [flex-flow](#), [flex-grow](#), [flex-shrink](#), [flex-wrap](#), [justify-content](#), [order](#)

Text Properties: 17

[hanging-punctuation](#), [hyphens](#), [letter-spacing](#), [line-break](#), [line-height](#), [overflow-wrap](#), [tab-size](#), [text-align](#), [text-align-last](#), [text-combine-upright](#), [text-indent](#), [text-justify](#), [text-transform](#), [white-space](#), [word-break](#), [word-spacing](#), [word-wrap](#)

Text Decoration Properties: 6

[text-decoration](#), [text-decoration-color](#), [text-decoration-line](#), [text-decoration-style](#), [text-shadow](#), [text-underline-position](#)

Font Properties: 20

[@font-face](#), [@font-feature-values](#), [font](#), [font-family](#), [font-feature-settings](#), [font-kerning](#), [font-language-override](#), [font-size](#), [font-size-adjust](#), [font-stretch](#), [font-style](#), [font-synthesis](#), [font-variant](#), [font-variant-alternates](#), [font-variant-caps](#), [font-variant-east-asian](#), [font-variant-ligatures](#), [font-variant-numeric](#), [font-variant-position](#), [font-weight](#)

Writing Mode Properties: 6

[direction](#), [text-orientation](#), [text-combine-upright](#), [unicode-bidi](#), [user-select](#), [writing-mode](#)

Table Properties: 5

[border-collapse](#), [border-spacing](#), [caption-side](#), [empty-cells](#), [table-layout](#)

Lists & Counters Properties: 6

[counter-increment](#), [counter-reset](#), [list-style](#), [list-style-image](#), [list-style-position](#), [list-style-type](#)

Animation Properties: 10

[@keyframes](#), [animation](#), [animation-delay](#), [animation-direction](#), [animation-duration](#), [animation-fill-mode](#), [animation-iteration-count](#), [animation-name](#), [animation-play-state](#), [animation-timing-function](#)

Transform Properties: 6

[backface-visibility](#), [perspective](#), [perspective-origin](#), [transform](#), [transform-origin](#), [transform-style](#)

Transition Properties: 5

[transition](#), [transition-property](#), [transition-duration](#), [transition-timing-function](#), [transition-delay](#)

Basic UI Properties: 16

[box-sizing](#), [content](#), [cursor](#), [ime-mode](#), [nav-down](#), [nav-index](#), [nav-left](#), [nav-right](#), [nav-up](#), [outline](#), [outline-color](#), [outline-offset](#), [outline-style](#), [outline-width](#), [resize](#), [text-overflow](#)

Multi Column Layout Properties: 14

[break-after](#), [break-before](#), [break-inside](#), [column-count](#), [column-fill](#), [column-gap](#), [column-rule](#), [column-rule-color](#), [column-rule-style](#), [column-rule-width](#), [column-span](#), [column-width](#), [columns](#), [Widows](#)

Paged Media Properties: 4

[Orphans](#), [page-break-after](#), [page-break-before](#), [page-break-inside](#)

Generated Content for Paged Media Properties: 2

[marks](#), [quotes](#)

Filter Effects Properties: 1

[filter](#)

Image Values and Replaced Content: 5

[image-orientation](#), [image-rendering](#), [image-resolution](#), [object-fit](#), [object-position](#)

Masking Properties: 2

[mask](#), [mask-type](#)

Speech Properties: 14

[Mark](#), [mark-after](#), [mark-before](#), [Phonemes](#), [rest](#), [rest-after](#), [rest-before](#), [voice-balance](#), [voice-duration](#), [voice-pitch](#), [voice-pitch-range](#), [voice-rate](#), [voice-stress](#), [voice-volume](#)

Marquee Properties: 4

[marquee-direction](#), [marquee-play-count](#), [marquee-speed](#), [marquee-style](#)

jQuery Selectors: (60)

[*](#), [#id](#), [.class](#), [.class.class](#), [element](#), [el1,el2,el3](#)

[:first](#), [:last](#), [:even](#), [:odd](#)

:first-child, :first-of-type, :last-child, :last-of-type, :nth-child(n), :nth-last-child(n), :nth-of-type(n), :nth-last-of-type(n), :only-child, :only-of-type
parent > child, parent descendant, element + next, element ~ siblings
:eq(index), :gt(no), :lt(no), :not(selector)
:header, :animated, :focus, :contains(text), :has(selector), :empty, :parent, :hidden, :visible, :root, :lang(language)
[attribute], [attribute=value], [attribute!=value], [attribute\$=value], [attribute|=value], [attribute^=value],
[attribute~=value], [attribute*=value]
:input, :text, :password, :radio, :checkbox, :submit, :reset, :button, :image, :file, :enabled, :disabled, :selected,
:checked

jQuery Methods: (160)

jQuery Event Methods: 45

bind(), blur(), change(), click(), dblclick(), delegate(), die(), error(), event.currentTarget, event.data, event.delegateTarget, event.isDefaultPrevented(), event.isImmediatePropagationStopped(), event.isPropagationStopped(), event.namespace, event.pageX, event.pageY, event.preventDefault(), event.relatedTarget, event.result, event.stopImmediatePropagation(), event.stopPropagation(), event.target, event.timeStamp, event.type, event.which, focus(), focusin(), focusout(), hover(), keydown(), keypress(), keyup(), live(), load(), mousedown(), mouseenter(), mouseleave(), mousemove(), mouseout(), mouseover(), mouseup(), off(), on(), one(), \$.proxy(), ready(), resize(), scroll(), select(), submit(), toggle(), trigger(), triggerHandler(), unbind(), undelegate(), unload()

jQuery Effect Methods: 17

animate(), clearQueue(), delay(), dequeue(), fadeIn(), fadeOut(), fadeTo(), fadeToggle(), finish(), hide(), queue(), show(), slideDown(), slideToggle(), slideUp(), stop(), toggle()

jQuery HTML/CSS Methods: 41

addClass(), after(), append(), appendTo(), attr(), before(), clone(), css(), detach(), empty(), hasClass(), height(), html(), innerHeight(), innerWidth(), insertAfter(), insertBefore(), offset(), offsetParent(), outerHeight(), outerWidth(), position(), prepend(), prependTo(), prop(), remove(), removeAttr(), removeClass(), removeProp(), replaceAll(), replaceWith(), scrollLeft(), scrollTop(), text(), toggleClass(), unwrap(), val(), width(), wrap(), wrapAll(), wrapInner()

jQuery Traversing Methods: 29

add(), addBack(), andSelf(), children(), closest(), contents(), each(), end(), eq(), filter(), find(), first(), has(), is(), last(), map(), next(), nextAll(), nextUntil(), not(), offsetParent(), parent(), parents(), parentsUntil(), prev(), prevAll(), prevUntil(), siblings(), slice()

jQuery AJAX Methods: 19

\$.ajax(), \$.ajaxPrefilter(), \$.ajaxSetup(), \$.ajaxTransport(), \$.get(), \$.getJSON(), \$.parseJSON(), \$.getScript(), \$.param(), \$.post(), ajaxComplete(), ajaxError(), ajaxSend(), ajaxStart(), ajaxStop(), ajaxSuccess(), load(), serialize(), serializeArray()

jQuery Misc Methods: 9

data(), each(), get(), index(), \$.noConflict(), \$.param(), removeData(), size(), toArray()

jQuery Properties: 6

context, jquery, jQuery.fx.interval, jQuery.fx.off, jQuery.support, length

Complete List of All Bootstrap Classes (240)

.active, .affix, .alert, .alert-danger, .alert-dismissible, .alert-info, .alert-link, .alert-success, .alert-warning, .badge, .bg-danger, .bg-info, .bg-primary, .bg-success, .bg-warning, .breadcrumb, .btn, .btn-block, .btn-danger, .btn-default, .btn-group, .btn-group-justified, .btn-group-lg, .btn-group-sm, .btn-group-vertical, .btn-group-xs, .btn-info, .btn-lg, .btn-link, .btn-link, .btn-primary, .btn-sm, .btn-success, .btn-warning, .btn-xs, .caption, .caret, .carousel, .carousel-caption, .carousel-control, .carousel-indicators, .carousel-inner, .center-block, .checkbox, .checkbox-inline, .clearfix, .close, .col-*, .col-*-offset-*, .col-*-pull-*, .col-*-push-*, .collapse, .collapse in, .container, .container-fluid, .control-label, .danger, .disabled, .divider, .dl-horizontal, .dropdown, .dropdown-header, .dropdown-menu, .dropdown-menu-right, .dropdown-toggle, .dropdown, .embed-responsive, .embed-responsive-16by9, .embed-responsive-4by3, .embed-responsive-item, .fade, .form-control, .form-control-feedback, .form-control-static, .form-group, .form-horizontal, .form-inline, .glyphicon, .h1 - .h6, .has-danger, .has-feedback, .has-success, .has-warning, .help-block, .hidden, .hidden-*, .hidden-print, .hide, .icon-bar, .icon-next, .icon-prev, .img-circle, .img-rounded, .img-thumbnail, .in, .info, .initialism, .input-group, .input-group-addon, .input-group-btn, .input-group-lg, .input-group-sm, .input-lg, .input-sm, .invisible, .item, .jumbotron, .label, .label-danger, .label-info, .label-success, .label-warning, .lead, .left, .list-group, .list-group-item, .list-group-item-danger, .list-group-item-heading, .list-group-item-info, .list-group-item-success, .list-group-item-text, .list-group-item-warning, .list-inline, .list-unstyled, .mark, .media, .media-body, .media-heading, .media-list, .media-object, .modal, .modal-body, .modal-content, .modal-dialog, .modal-footer, .modal-header, .modal-lg, .modal-open, .modal-sm, .modal-title, .nav, .navbar-nav, .nav nav-pills, .nav nav-tabs, .nav-justified, .nav-stacked, .nav-tabs, .navbar, .navbar-brand, .navbar-btn, .navbar-collapse, .navbar-default, .navbar-fixed-bottom, .navbar-fixed-top, .navbar-form, .navbar-header, .navbar-inverse, .navbar-left, .navbar-link, .navbar-nav, .navbar-right, .navbar-static-top, .navbar-text, .navbar-toggle, .next, .next, .page-header, .pager, .pagination, .pagination-lg, .pagination-sm, .panel, .panel-body, .panel-collapse, .panel-danger, .panel-footer, .panel-group, .panel-heading, .panel-info, .panel-success, .panel-title, .panel-warning, .popover, .pre-scrollable, .prev, .previous, .progress, .progress-bar, .progress-bar-danger, .progress-bar-info, .progress-bar-striped, .progress-bar-success, .progress-bar-warning, .pull-left, .pull-right, .right, .row, .show, .small, .sr-only, .sr-only-focusable, .success, .tab-content, .tab-pane, .table, .table-bordered, .table-condensed, .table-hover, .table-responsive, .text-capitalize, .text-center, .text-danger, .text-hide, .text-info, .text-justify, .text-left, .text-lowercase, .text-muted, .text-nowrap, .text-primary, .text-right, .text-success, .text-uppercase, .text-warning, .thumbnail, .tooltip, .visible-*, .visible-print-block, .visible-print-inline, .visible-print-inline-block, .warning, .well, .well-lg, .well-sm