

Web Development Curriculum - CODEX

Day 1

- Intro to HTML
 - basic html workflow and tags
 - begin with html tags
- Basic HTML Tags and elements
- Start learning basic HTML tags and the document flow. Discuss about DOCTYPE, html, head, body, heading and header tags, paragraph tags, line and line breaks, list (ordered and unordered), comments

html tags : https://www.w3schools.com/tags/ref_byfunc.asp

Day 2

- Advance HTML tags (img , audio , etc...)
 - image, audio etc...
- Begin with some advance html tags like image, audio, video, hyperlink, table, bold/italic/underline, div, id, span, class.
- Intro to CSS
 - methods to insert CSS(External SS, Internal SS, Inline Style), selectors colors, background, fonts
- Introduce CSS show how to select in css, basic css properties like color, background, fonts, text align, text transform, text decoration

css properties : <http://web.simmons.edu/~grabiner/comm244/weekthree/css-basic-properties.html>

Day 3

- CSS advance selectors, Pseudo-classes and elements.
- CSS Units px, ems , rems, percentage
- Box model padding, border, margin
- Assignment
- Show how advance selection methods, explain about css units, css box padding, border, margin give assignment for these

css selectors: https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors

css units: https://www.tutorialspoint.com/css/css_measurement_units.htm

css box model mdn : https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Box_Model/Introduction_to_the_CSS_box_model

css box model w3 : https://www.w3schools.com/css/css_boxmodel.asp

Day 4

- HTML forms and styling it
- Show the HTML form elements and style them introducing html form tag and css properties width,max-width, use margin padding border

HTML form elements: https://www.w3schools.com/html/html_forms.asp

Day 5

- CSS floating
- Navbars non responsive navbars
- Show how to use CSS floating float and clearfix, Show the use of navigation bars , introduce css list stylings , position using floats

css navbar : https://www.w3schools.com/css/css_navbar.asp

css floating : <https://developer.mozilla.org/en-US/docs/Web/CSS/float>

Day 6

- Responsive CSS
 - media queries
 - CSS Positioning (flexbox)
- Advance properties
 - shadow, text decorations
- Assignment
- Introduce to responsive css, use flexbox to align elements give assignment (responsive HTML form)

css media queries : https://www.w3schools.com/css/css_rwd_mediaqueries.asp

css flexbox : https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Flexbox

css text shadow : <https://developer.mozilla.org/en-US/docs/Web/CSS/text-shadow>

Day 7

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- Javascript fundamentals
 - Conditionals
 - Introduce to javascript , primitive types in javascript, null and undefined, mathematical operations with multiple types, show the use of conditionals if-else

javascript fundamentals : https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/JavaScript_basics

Day 8

- Flow Control and loops
- show looping and flow control , for loops , forEach loops, explain asynchronous javascript

javascript loops : https://www.w3schools.com/js/js_loop_for.asp

javascript forEach loops : https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/for_each...in

Day 9

- Functions and DOM Manipulation
- Assignment
- show the use of functions and callbacks, introduction to basic DOM manipulation such as changing basic css properties, give assignment (color block game)

javascript DOM : https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction

javascript functions : <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions>

Day 10

- Advance DOM Manipulation and Event Listener
- Show advance DOM manipulation using classlists methods, show event listeners (click, hover, mousemove etc)

javascript event listeners : https://www.w3schools.com/js/js_html_dom_eventlistener.asp

Day 11

- Javascript Arrays
- Javascript Objects

- Introduce to JS arrays and objects and basic functionality associated with them

javascript arrays : https://www.w3schools.com/js/js_array_methods.asp

javascript objects : https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object

Day 12

- Classes and objects
- Assignment
- Introduce OOP concepts and basics of classes and objects in js give assignment (to do list)

javascript classes and objects : <https://javascript.info/class>

POPULAR ONLINE RESOURCES

- mdn : <https://developer.mozilla.org/en-US/>
- w3schools : <https://www.w3schools.com/>
- javascript info : <https://javascript.info/>