

HTML VÀ CSS

Mục tiêu:

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1. HTML

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What is HTML?

- HTML is a **markup** language for **describing** web documents (web pages).
- HTML stands for **Hyper Text Markup Language**
- A markup language is a set of **markup tags**
- HTML documents are described by **HTML tags**
- Each HTML tag **describes** different document content

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HTML Versions

Version	Year
HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML5	2014

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HTML Page Structure

```

<html>
<head>
  <title>Page title</title>
</head>
<body>
  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>
  <p>This is another paragraph.</p>
</body>
</html>

```

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HTML Basic

- HTML document
- HTML headings
- HTML paragraphs
- HTML links
- HTML images
- **HTML Comments**
 - Hidden comments
 - Conditional comments
 - Comments for debugging

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HTML Attributes

- The title attribute
- The href attribute
- The width and height attributes
- The alt attribute
- Attribute without quotes
- Attribute without quotes does not work

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HTML Links

- Linking, using an absolute URL
- Linking, using a relative URL
- Changing the color of links
- Removing the underline from links
- Changing the target of a link
- An image as a link
- Creating a bookmark link
- A link that breaks out of a frame
- A mail to link
- A mail to link with subject

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HTML Images

- The Mountain
 - An image height and width using attributes
 - An image height and width using CSS
 - An image height and width using both
 - An image in another folder
 - An image with a broken link
 - An image on another server
 - Using an image as a link
 - A moving image
 - An image map with clickable regions
 - A floating image

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HTML Styles

- HTML styles
- HTML background color
- HTML text color
- HTML text font
- HTML text size
- HTML text alignment

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HTML Text Formatting

- **Bold formatting using the element**
- **Italic formatting using the <i> element**
- Emphasized formatting using the element
- Small formatting using the <small> element
- Marked formatting using the <mark> element
- Marked deleted using the element
- Marked inserted using the <ins> element
- Marked deleted and inserted using and <ins>
- **Subscript formatting using the <sub> element**
- **Superscript formatting using the <sup> element**

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HTML CSS

- HTML with inline CSS
- HTML with internal CSS
- HTML with external CSS
- HTML with CSS fonts
- HTML with CSS using the id attribute
- HTML with CSS using the class attribute
- HTML and CSS borders
- HTML and CSS padding
- HTML and CSS margin

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HTML Tables

- Basic HTML tables
 - A table with borders
 - A table with collapsed borders
 - A table with cell padding
 - A table with headings
 - A table with left-aligned headings
 - Horizontal/Vertical table headings
 - A table with a caption
 - Table cells that span more than one column
 - Table cells that span more than one row
 - A table with cell spacing
 - A table with HTML tags inside

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HTML Lists

- An unordered list (default)
 - An unordered list with disc bullets
 - An unordered list with circle bullets
 - An unordered list with square bullets
 - An unordered list without bullets
- An ordered list (default)
 - An ordered list with numbers
 - An ordered list with letters
 - An ordered list with lowercase letters
 - An ordered list with roman numbers
 - An ordered list with lowercase roman numbers

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HTML Block and inline elements

- Styling <div> elements
- Styling elements

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HTML Classes

- Classing <div> elements I
- Classing <div> elements II
- Classing elements

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HTML head Elements

- A valid HTML document with no <html> <body> and <head>
 - A valid HTML document with no <head> element
 - The <title> element defines the document title
 - The <style> element contains style information
 - The <link> element defines a relationship to an external resource
 - The <meta> element defines special meta information
 - The <script> element defines client-side JavaScripts
 - The <base> element defines the base URL for all URLs

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HTML Forms

- Form with text input
- Form with radio button input
- Form with text fields and a submit button
- Form with a text fields without a name attribute
- Grouping Form Data
- Send e-mail from a form

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HTML Form Elements

- A simple drop-down list
- A drop-down list with a pre-selected value
- A textarea (a multi-line text input field)
- An input button
- Using the <datalist> Element
- Using the <keygen> Element
- Using the <output> Element

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HTML Input Types

- | | |
|--|---|
| <ul style="list-style-type: none"> • Input type text Input type password Input type radio Input type checkbox Input type button Input type number - with restrictions Input type number - with steps Input type date - with date picker Input type date - with restrictions Input type color - with color picker | <ul style="list-style-type: none"> • Input type range Input type month Input type week Input type time Input type datetime Input type datetime-local Input type email Input type search Input type tel Input type url |
|--|---|

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HTML5 Media

- Play Bunny
- Play bear video with controls
- Play bear video with a autoplay
- Play Horse sound with controls

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HTML Layout

- Layout using <div> elements
- Layout using semantic elements
- Layout using <table> elements

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2. CSS

- | | |
|---|---|
| <ul style="list-style-type: none"> • What? Why • CSS Syntax • CSS Backgrounds • CSS Text • CSS Fonts • CSS Links • CSS Positioning | <ul style="list-style-type: none"> • CSS Borders • CSS Margins • CSS Padding • CSS Lists • CSS Tables • CSS Display • CSS Floating |
|---|---|

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What? Why

- What is CSS?
 - CSS stands for Cascading Style Sheets
 - CSS describes **how HTML elements are to be displayed on screen, paper, or in other media**
 - CSS **saves a lot of work**. It can control the layout of multiple web pages all at once
 - External stylesheets are stored in **CSS files**
- Why Use CSS?
 - CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes

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CSS Syntax

- The element selector
- The id selector
- The class selector (for all elements)
- The class selector (for only <p> elements)
- Grouping selectors

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CSS Backgrounds

- Set the background color of a page
Set the background color of different elements
Set an image as the background of a page
How to repeat a background image only horizontally
How to position a background image
A fixed background image (this image will not scroll with the rest of the page)
All the background properties in one declaration
Advanced background example

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CSS Text

- Set the text color of different elements
Align the text
Remove the line under links
Decorate the text
Control the letters in a text
Indent text
Specify the space between characters
Specify the space between lines
Set the text direction of an element
Increase the white space between words
Disable text wrapping inside an element
Vertical alignment of an image inside text

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CSS Fonts

- Set the font of a text
Set the size of the font
Set the size of the font in px
Set the size of the font in em
Set the size of the font in percent and em
Set the style of the font
Set the variant of the font
Set the boldness of the font
All the font properties in one declaration

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CSS Margins

- Specify different margins for each side of an element
Let the left margin be inherited from the parent element
The margin shorthand property
Set margin to auto to center the element within its container

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CSS Padding

- Set the left padding of an element
Set the right padding of an element
Set the top padding of an element
Set the bottom padding of an element
All the padding properties in one declaration

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CSS Links

- Add different colors to visited/unvisited links
Use of text-decoration on links
Specify a background color for links
Add other styles to hyperlinks
Advanced - Create link boxes

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CSS Lists

- All the different list item markers in lists
Set an image as the list-item marker
Position the list-item marker
All list properties in one declaration
Style lists with colors
- List properties explained

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CSS Tables

- Specify a black border for table, th, and td elements
Use of border-collapse
Specify the width and height of a table
Set the horizontal alignment of content (text-align)
Set the vertical alignment of content (vertical-align)
Specify the padding for th and td elements
Specify the color of the table borders
Set the position of the table caption
Create a fancy table

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CSS Borders

- Set the width of the four borders
Set the width of the top border
Set the width of the bottom border
Set the width of the left border
Set the width of the right border
Set the style of the four borders
Set the style of the top border
Set the style of the bottom border
Set the style of the left border
Set the style of the right border

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3. Các dạng áp dụng CSS trong trang HTML

- HTML with inline CSS
- HTML with internal CSS
- HTML with external CSS

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4. Tổ chức website chứa CSS

- Thường dùng external CSS
- Định nghĩa các file CSS tách rời file html

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5. Quy trình xây dựng web tĩnh với HTML và CSS

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6. Thiết kế và xây dựng web tĩnh trong DreamWeaver

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7. Tổng kết

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