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Intro to HTML/CSS

Let's **build** your **first**
portfolio using HTML and CSS!

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01

Set Up Code Environment

Download VSCode

02

HTML

Learn the basics of HTML

What is HTML?

HTML

- Hyper Text Markup Language
  - Backbone or skeleton of websites
  - Describe website content and presentation
    - Create website elements such as:
      - Lists
      - Links
      - Buttons
      - Text

Example of a basic HTML document

Tells browser to load   HTML file type ⟶

Indicates start of HTML file ⟶

Metadata ⟶

Set browser title ⟶

Start of actual content ⟶

HTML syntax

<stuff> => start of the section
</stuff> => close the section

* Images are an **exception**

```
<!DOCTYPE html>
<html>

<head>
     <title>Q's Website</title>
</head>

<body>
     <h1>First Big Header</h1>
     <p>My first paragraph.</p>
</body>
</html>
```

Tag	Name	Code Example	Browser View
<body>		<BODY bgcolor="#FFFFFF" text="red">	
<table>		<Table><tr><td>jadwal</td></tr></table>	
<!--	comment	<!--This can be viewed in the **HTML** part of a document-->	Nothing will show (Tip)
<a -	anchor	Visit Our Site	Visit Our Site (Tip)
	bold	Example	**Example**
<big>	big (text)	<big>Example</big>	Example (Tip)
<body>	body of HTML document	<body>The content of your **HTML** page</body>	Contents of your web page (Tip)
 	line break	The contents of your page The contents of your page	The contents of your web page The contents of your web page
<center>	center	<center>This will center your contents</center>	This will center your contents
<dd>	definition description	<dl><dt>Definition Term</dt><dd>Definition of the term</dd><dt>Definition Term</dt><dd>Definition of the term</dd></dl>	Definition Term **Definition of the term** Definition Term **Definition of the term**
<dl>	definition list	<dl><dt>Definition Term</dt><dd>Definition of the term</dd><dt>Definition Term</dt><dd>Definition of the term</dd></dl>	Definition Term Definition of the term Definition Term Definition of the term
<dt>	definition term	<dl><dt>Definition Term</dt><dd>Definition of the term</dd><dt>Definition Term</dt><dd>Definition of the term</dd></dl>	**Definition Term** Definition of the term **Definition Term** Definition of the term
	emphasis	This is an Example of using the emphasis tag	This is an *Example* of using the emphasis tag
<embed>	embed object	<embed src="yourfile.mid" width="100%" height="60" align="center">	(Tip)

HTML Tags Chart (not everything)

HTML Tags Chart (not everything)

Tag	Description
<html> ... </html>	Declares the Web page to be written in HTML
<head> ... </head>	Delimits the page's head
<title> ... </title>	Defines the title (not displayed on the page)
<body> ... </body>	Delimits the page's body
<h n> ... </hn>	Delimits a level n heading
 ... 	Set ... in boldface
<i> ... </i>	Set ... in italics
<center> ... </center>	Center ... on the page horizontally
...	Brackets an unordered (bulleted) list
...	Brackets a numbered list
...	Brackets an item in an ordered or numbered list
 	Forces a line break here
<p>	Starts a paragraph
<hr>	Inserts a horizontal rule
<img src="...">	Displays an image here
 ... 	Defines a hyperlink

Quick Exercise

Create a new file "**weather.html**" and write a

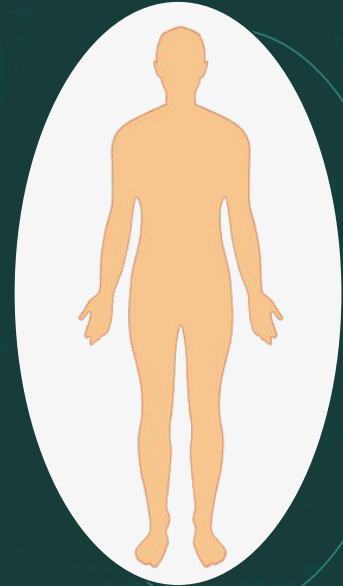**paragraph** on what the weather was like today

within the **<body>**TO DO**</body>** element

CSS

03

Learn the basics of CSS

What is CSS?

CSS
- **C**ascading **S**tyle **S**heet
  - The "**skin**" of your website
  - Style sheet => think of styling the website
  - Font type, font color, background color, button color, image border etc.

CSS syntax

```
h1
{
}

.class {
}

#id {
}
```

Example of a basic CSS document

```
h1
{
        font-size: 30px;
        color: blue;
}

.class {

        align: center;
}

#id {
        color: red;
}
```

CSS Cheat Sheet

Syntax

```
/* Comments */          Note:
@media type {           media type is optional
  selector {
    property: value;
  }
}
```

Inline Style
```
<tag style="property: value;">
```

Embedded Style
```
<head>
  <style type="text/css">
    selector { property: value; }
  </style>
</head>
```

External Style Sheet
```
<head>
  <link rel="stylesheet"
  type="text/css" href="style.css" />
</head>
```

Selectors

*	All elements
tag	All tag elements
tag *	All elements within tag
tag tag2	tag2 elements within tag
tag, tag2	All tag and tag2 elements
tag > tag2	tag2 is a child of tag
tag + tag2	tag2 preceded by tag
.class	Elements with class 'class'
tag.class	All tags with class 'class'
#id	Element with id 'id'
tag#id	Tag with id 'id'

Box Model

TOP
BORDER
WIDTH
LEFT
HEIGHT
CONTENT
RIGHT
PADDING
MARGIN
BOTTOM
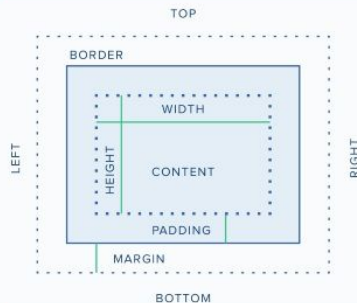
Boxes

margin	margin-top margin-right margin-bottom margin-left
padding	padding-top padding-right padding-bottom padding-left
border	border-top border-right border-bottom border-left
border-color	border-top-color border-right-color border-bottom-color border-left-color
border-style	border-top-style border-right-style border-bottom-style border-left-style
border-width	border-top-width border-right-width border-bottom-width border-left-width

Pseudo-selectors

:active	Adds style to active element
:after	Adds content after element
:before	Ads content before element
:first-child	Adds style to first child
:first-letter	Adds style to first character
:first-line	Adds style to first line
:focus	Adds style to focused element
:hover	Adds style when mouse is over
:link	Adds style to unvisited link
:visited	Adds style to visited link

Text

font-family	Specifies the font family
font-size	Specifies the font size
font-style	normal	italic	oblique	inherit
font-variant	normal	small-caps	inherit
font-weight	normal	bold	bolder	lighter	int (100- 900)	inherit
color	Sets the color of text
line-height	normal	int	%	inherit
text-align	left	right	center	justify	inherit
text-decoration	none	underline	overline	line-through	blink	inherit
text-indent	int	%	inherit
text-transform	none	capitalize	uppercase	lowercase	inherit
vertical-align	int	%	baseline	sub	super	top	text-top middle	bottom	text-bot-tom	inherit
white-space	normal	nowrap	pre	pre-line	pre-wrap	inherit
word-spacing	normal	length	inherit

Size and colors

Relative sizes	em	rem	ex	ch vw	vh	vmin	vmax	%
Absolute sizes	cm	mm	in	px	pt	pc
Colors	Hex #ff00ff RGB rgb(255,0,255)

Positioning

position	absolute	fixed	relative	static	inherit
float	left	right	none	inherit
top, right, bottom, left	Sets the offset from the edge
clear	left	right	both	none	inherit I fixed the document now
display	Specifies element placing in the document flow
overflow	visible	hidden	scroll	auto	inherit
visibility	visible	hidden	collapse	inherit
z-index	auto	int	inherit

Dimensions

height	auto	int	%	inherit
max-height	none	int	%	inherit
max-height	none	int	%	inherit
max-width	none	int	%	inherit
min-height	int	%	inherit
min-width	int	%	inherit
width	auto	int	%	inherit

Other

background	Format: background (color) (image) (repeat) (position)
cursor	Set the type of cursor
quotes	Set type of quotation marks

About Me

03

Create your about me page!