

# V-EX TECH SOLUTION

## Web Development

Certification Course

**Assured Placement Program  
With International Certificate**

### About V-Ex Tech....

**V-Ex Tech** is an elevated education platform providing rigorous industry-relevant programs Designed and delivered on collaboration with industry professionals. It has been constantly Into process of creating an immersive learning experience binding latest technologies, pedagogy and services with enormous job placement opportunities too.

# Front End Web Development

## 1. HTML – OVERVIEW

HTML stands for Hypertext Markup Language, and it is the most widely used language to write Web Pages.

- Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext.
- As its name suggests, HTML is a Markup Language which means you use HTML to simply "mark-up" a text document with tags that tell a Web browser how to structure it to display.

Originally, HTML was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers.

Now, HTML is being widely used to format web pages with the help of different tags available in HTML language.

## HTMLS

- HTML Basics
- Tables
- List
- Working with links
- Image Handling
- Structure of a Web page
- Forms
- Audio And Video
- HTML Forms User Input
- New Form Elements
- Cascading Style Sheets 3.0
- Selectors and pseudo-Classes
- Working with text and fonts
- Frames
- Colors and Borders
- Transition, Transforms,  
and Animation
- Layout: Columns and Flexible Box
- Embedding Media
- Media Queries

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Page Title</title>
```

```
</head>
```

```
<body>
```

```
<h1>This is a Heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
</body>
```

```
</html>
```

```
<tagname> Content goes here... </tagname>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```



Learn HTML Using Notepad or TextEdit

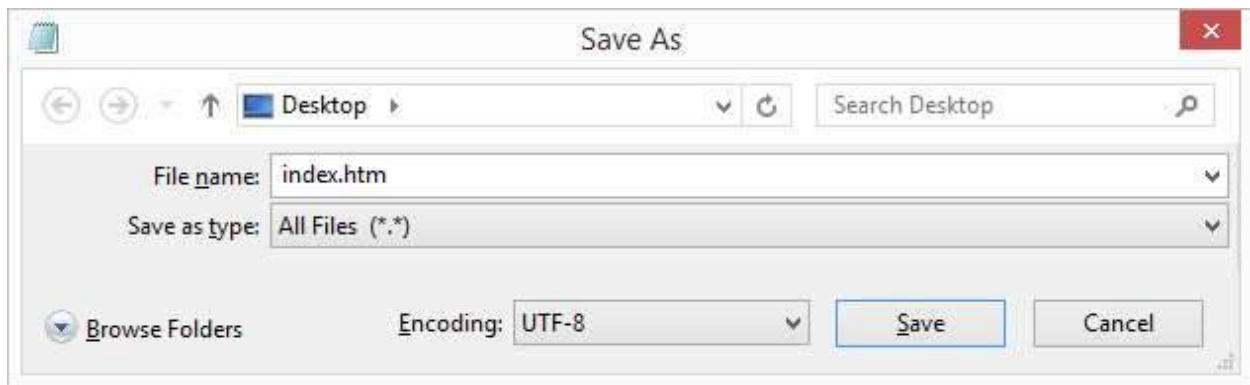
A screenshot of a Notepad window titled "Untitled - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text area contains the following HTML code:

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```



# HTML Headings

`<h1>This is heading 1</h1>`

`<h2>This is heading 2</h2>`

`<h3>This is heading 3</h3>`

`<h4>This is heading 4</h4>`

`<h5>This is heading 5</h5>`

`<h6>This is heading 6</h6>`

## HTML Paragraphs

`<p>This is another paragraph.</p>`

## HTML Links

`<a href="https://www.w3schools.com">This is a link</a>`

The link's destination is specified in the `href` attribute.

# HTML Images

The source file (`src`), alternative text (`alt`), `width`, and `height` are provided as attributes:

```

```

## Br tags

```
<p>This is a <br> paragraph with a line break.</p>
```

## The title Attribute

```
<p title="I'm a tooltip">This is a paragraph.</p>
```

## HTML Horizontal

```
<h1>This is heading 1</h1>
<p>This is some text.</p>
<hr>
<h2>This is heading 2</h2>
<p>This is some other text.</p>
<hr>
```



# The HTML <pre> Element

<pre>

My Bonnie lies over the ocean.

My Bonnie lies over the sea.

My Bonnie lies over the ocean.

Oh, bring back my Bonnie to me.

</pre>

## HTML Formatting Elements

- <b> - Bold text
- <strong> - Important text
- <i> - Italic text
- <em> - Emphasized text
- <mark> - Marked text
- <small> - Smaller text
- <del> - Deleted text
- <ins> - Inserted text
- <sub> - Subscript text
- <sup> - Superscript text

## HTML Comments

<!-- This is a comment -->

<p>This is a paragraph.</p>

<!-- Remember to add more information here -->

# HTML icon

# Fontawesome

# HTML Tables

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

# HTML Lists

## Unordered HTML List

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

# Ordered HTML List

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

# The <span> Element

```
<p>My mother has <span style="color:blue;font-weight:bold;">blue</span> eyes and my father
has <span style="color:darkolivegreen;font-weight:bold;">dark
green</span> eyes.</p>
```

# HTML Iframes

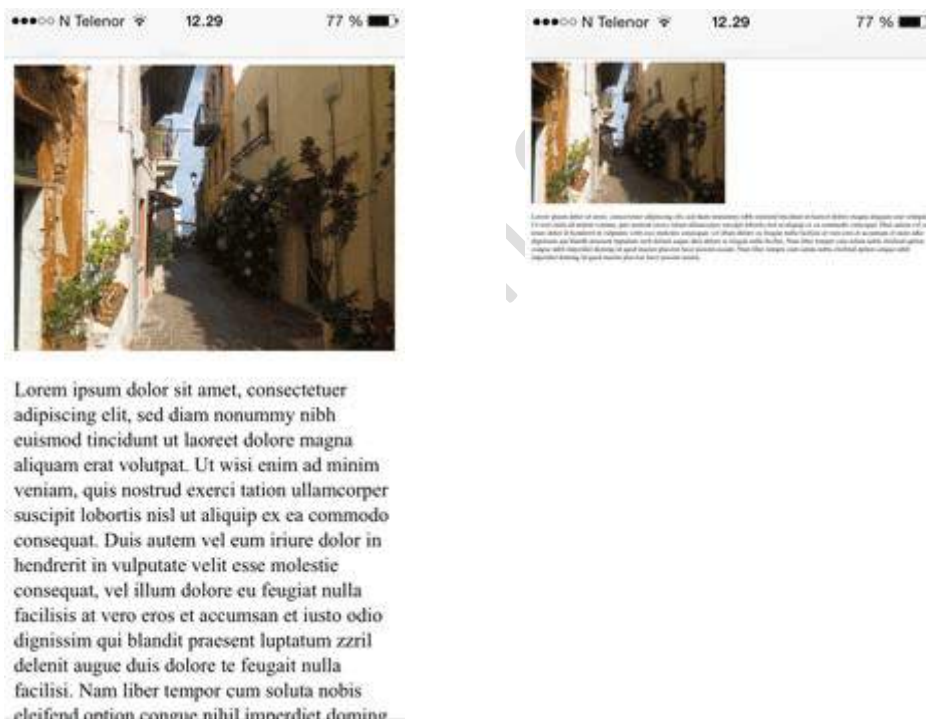
```
<iframe src="demo_iframe.htm" style="border:2px solid red;" title="Iframe
Example"></iframe>
```



# HTML Responsive Web Design

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

Without the viewport meta tag:



With the viewport meta tag:

## Responsive Images

```

```

# Media Queries

```
<style>
.left, .right {
  float: left;
  width: 20%; /* The width is 20%, by default */
}

.main {
  float: left;
  width: 60%; /* The width is 60%, by default */
}

/* Use a media query to add a breakpoint at 800px: */
@media screen and (max-width: 800px) {
  .left, .main, .right {
    width: 100%; /* The width is 100%, when the viewport is 800px or
smaller */
  }
}
</style>
```

## Semantic Elements in HTML



- <article>
- <aside>
- <details>
- <figcaption>
- <figure>
- <footer>
- <header>
- <main>
- <mark>
- <nav>
- <section>
- <summary>
- <time>

# HTML Entities

A commonly used entity in HTML is the non-breaking space: **&nbsp;**

Result	Description	Entity Name	Entity Number
	non-breaking space	&nbsp;	&#160;
<	less than	&lt;	&#60;
>	greater than	&gt;	&#62;
&	ampersand	&amp;	&#38;

"	double quotation mark	&quot;	&#34;
'	single quotation mark (apostrophe)	&apos;	&#39;
¢	cent	&cent;	&#162;
£	pound	&pound;	&#163;
¥	yen	&yen;	&#165;
€	euro	&euro;	&#8364;
©	copyright	&copy;	&#169;
®	registered trademark	&reg;	&#174;

**Note:** Entity names are case sensitive.

Here are some examples:

Mark	Character	Construct	Result
`	a	a&#768;	à

'	a	a&#769;	á
^	a	a&#770;	â
~	a	a&#771;	ã
`	O	O&#768;	Ò
'	O	O&#769;	Ó
^	O	O&#770;	Ô
~	O	O&#771;	

Char	Number	Entity	Description
©	&#169;	&copy;	COPYRIGHT SIGN
®	&#174;	&reg;	REGISTERED SIGN



€	&#8364; &euro;	EURO SIGN
™	&#8482; &trade;	TRADEMARK
←	&#8592; &larr;	LEFTWARDS ARROW
↑	&#8593; &uarr;	UPWARDS ARROW
→	&#8594; &rarr;	RIGHTWARDS ARROW
↓	&#8595; &darr;	DOWNWARDS ARROW
♠	&#9824; &spades;	BLACK SPADE SUIT
♣	&#9827; &clubs;	BLACK CLUB SUIT
♥	&#9829; &hearts;	BLACK HEART SUIT
♦	&#9830; &diams;	BLACK DIAMOND SUIT

# Using Emojis in HTML

```
<meta charset="UTF-8">
```

```
<p>I will display A B C</p>
```

```
<p>I will display &#65; &#66; &#67;</p>
```

## HTML Forms

```
<form>
```

```
<label for="fname">First name:</label><br>
```

```
<input type="text" id="fname" name="fname" value="John"><br>
```

```
<label for="lname">Last name:</label><br>
```

```
<input type="text" id="lname" name="lname" value="Doe">
```

```
</form>
```

- <input>
- <label>
- <select>
- <textarea>
- <button>
- <fieldset>
- <legend>
- <datalist>

- <input type="button">
- <input type="checkbox">
- <input type="color">
- <input type="date">
- <input type="datetime-local">

- `<input type="email">`
- `<input type="file">`
- `<input type="hidden">`
- `<input type="image">`
- `<input type="month">`
- `<input type="number">`
- `<input type="password">`
- `<input type="radio">`
- `<input type="range">`
- `<input type="reset">`
- `<input type="search">`
- `<input type="submit">`
- `<input type="tel">`
- `<input type="text">`
- `<input type="time">`
- `<input type="url">`
- `<input type="week">`

# HTML Input Attributes

`type="" id="" name="" value`

`readonly`

`disabled`

`size="50"`

`maxlength="4"`

`<input type="file" id="files" name="files" multiple><br><br>`

`pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}"`

required

autocomplete="off"

V-E Tech Solution

V-E Tech Solution