

V-EX TECH

Web Development

Java / Node.js / PHP / .Net / Python

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.

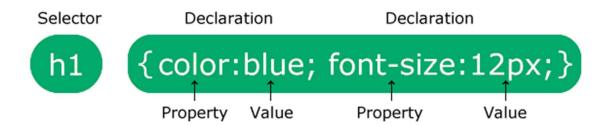


Css Course



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.



CSS Selectors

CSS element Selector



```
p {
 text-align: center;
 color: red;
CSS id Selector
#para1 {
 text-align: center;
 color: red;
}
CSS class Selector
.center {
 text-align: center;
 color: red;
CSS Universal Selector
* {
 text-align: center;
 color: blue;
```

CSS Grouping Selector

```
h1, h2, p {
  text-align: center;
  color: red;
}
```

}



Three Ways to Insert CSS

External CSS

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
<body>
<h1>This is a heading</h1>
This is a paragraph.
</body>
</html>
```



Internal CSS

```
<html>
<head>
<style>
body {
 background-color: linen;
}
h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
</head>
<body>
<h1>This is a heading</h1>
This is a paragraph.
</body>
</html>
```

Inline CSS



```
<!DOCTYPE html>
<html>
<body>
<h1 style="color:blue;text-align:center;">This is a heading</h1>
This is a paragraph.
</body>
</html>
```

Multiple Style Sheets

CSS Border Color

Hello World

Hello World

Hello World

Example

```
<h1 style="border:2px solid Tomato;">Hello World</h1>
<h1 style="border:2px solid DodgerBlue;">Hello World</h1>
<h1 style="border:2px solid Violet;">Hello World</h1></h1></h1></h1>
```



CSS Backgrounds

```
background-color
background-image
background-repeat
background-attachment
background-position
```

```
body {
  background-color: #ffffff;
  background-image: url("img_tree.png");
  background-repeat: no-repeat;
  background-position: right top;
}
```

CSS Borders

- dotted Defines a dotted border
- dashed Defines a dashed border
- solid Defines a solid border
- double Defines a double border
- groove Defines a 3D grooved border. The effect depends on the bordercolor value



- ridge Defines a 3D ridged border. The effect depends on the bordercolor value
- inset Defines a 3D inset border. The effect depends on the border-color value
- outset Defines a 3D outset border. The effect depends on the bordercolor value
- none Defines no border
- hidden Defines a hidden border

CSS Margins

Margins are used to create space around elements, outside of any defined borders.

```
<style>
div {
  border: 1px solid black;
  margin-top: 100px;
  margin-bottom: 100px;
  margin-right: 150px;
  margin-left: 80px;
  background-color: lightblue;
}
</style>
</head>
<body>
<h2>Using individual margin properties</h2></body>
```



<div>This div element has a top margin of 100px, a right margin of 150px, a bottom margin of 100px, and a left margin of 80px.</div>

</body>

CSS Padding

Padding is used to create space around an element's content, inside of any defined borders.

```
<style>
div {
    padding: 70px;
    border: 1px solid #4CAF50;
}
</style>
</head>
<body>
<h2>CSS Padding</h2>
<div>This element has a padding of 70px.</div>
</body>
```

CSS Height, Width and Maxwidth

The CSS height and width properties are used to set the height and width of an element.



The CSS max-width property is used to set the maximum width of an element.

CSS Text Alignment

```
h1 {
  text-align: center;
}
h2 {
  text-align: left;
}
h3 {
  text-align: right;
}
```

Text Direction

```
p {
  direction: rtl;
  unicode-bidi: bidi-override;
}
```



Text Decoration

```
<style>
h1 {
text-decoration: overline;
}
text-decoration: line-through;
}
h3 {
text-decoration: underline;
p.ex {
text-decoration: overline underline;
</style>
</head>
<body>
<h1>Overline text decoration</h1>
<h2>Line-through text decoration</h2>
<h3>Underline text decoration</h3>
Overline and underline text decoration.
<strong>Note:</strong> It is not recommended to underline text that is not a link, as this often
confuses
the reader.
```



CSS Text Transformation

```
p.uppercase {
  text-transform: uppercase;
}

p.lowercase {
  text-transform: lowercase;
}

p.capitalize { text-transform: capitalize;
}
```

CSS Text Spacing

text-indent
letter-spacing
text-align: justify;
line-height
word-spacing
white-space

CSS Text Shadow

Example

```
h1 {
  text-shadow: 2px 2px;
}
```



CSS Fonts

CSS font-family Property

```
.p1 {
  font-family: "Times New Roman", Times, serif;
}
.p2 {
  font-family: Arial, Helvetica, sans-serif;
}
.p3 {
  font-family: "Lucida Console", "Courier New", monospace;
}
```

CSS Links

```
Text Link Text Link
a:link - a normal, unvisited link
a:visited - a link the user has visited
a:hover - a link when the user mouses over it
a:active - a link the moment it is clicked
```



```
/* visited link */
a:visited {
  color: green;
}

/* mouse over link */
a:hover {
  color: hotpink;
}

/* selected link */
a:active {
  color: blue;
}
```

Text Decoration

```
a:link {
  text-decoration: none;
}
```

CSS Lists

```
<style>
ul {
    list-style-image: url('sqpurple.gif');
}
</style>
</head>
<body>
<h2>The list-style-image Property</h2>
The list-style-image property specifies an image as the list item marker:
```



```
CoffeeTeaCoca Cola
```

visibility:hidden;

display property to none

width and max-width

The position Property

There are five different position values:

- static
- relative
- . fixed
- absolute
- sticky



position: static;

```
div.static {
  position: static;
  border: 3px solid #73AD21;
}
```

position: relative;

```
position: relative;
left: 30px;
border: 3px solid #73AD21;
```

position: fixed;

```
div.fixed {
  position: fixed;
  bottom: 0;
  right: 0;
  width: 300px;
  border: 3px solid #73AD21;
}
```



position: absolute;

Here is a simple example:

```
This <div> element has position: relative;

This <div> element has position: absolute;
```

```
<style>
div.relative {
  position: relative;
  width: 400px;
  height: 200px;
  border: 3px solid #73AD21;
}

div.absolute {
  position: absolute;
  top: 80px;
```



```
right: 0;
width: 200px;
height: 100px;
border: 3px solid #73AD21;
}
</style>
</head>
<body>
<h2>position: absolute;</h2>
An element with position: absolute; is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like fixed):
<div class="relative">This div element has position: relative;</div>
<div class="absolute">This div element has position: absolute;</div>
</div>
</div>
```

position: sticky;

```
<style>
div.sticky {
  position: -webkit-sticky;
  position: sticky;
  top: 0;
  padding: 5px;
  background-color: #cae8ca;
  border: 2px solid #4CAF50;
}
</style>
</head>
<body>
Try to <b>scroll</b> inside this frame to understand how sticky positioning works.
<div class="sticky">I am sticky!</div>
```



<div style="padding-bottom:2000px">

In this example, the sticky element sticks to the top of the page (top: 0), when you reach its scroll position.

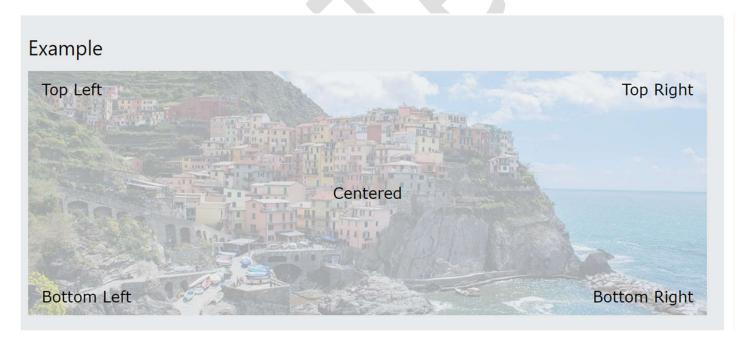
Scroll back up to remove the stickyness.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

</div>

</body>



Positioning Text In an Image



The z-index Property



```
img {
 position: absolute;
 left: 0px;
 top: 0px;
 z-index: -1;
```



Overflow

overflow: visible

```
div {
  width: 200px;
  height: 65px;
  background-color: coral;
  overflow: visible;
}
```

overflow: hidden

```
div {
  width: 200px;
  height: 65px;
  background-color: coral;
  overflow: hidden;
}
```



overflow: scroll

```
div {
  width: 200px;
  height: 65px;
  background-color: coral;
  overflow: scroll;
}
```

float

float: right;

float: left;



clear and clearfix

```
    .div1 {
    float: left;
    padding: 10px;
    border: 3px solid #73AD21;
}

.div2 {
    padding: 10px;
    border: 3px solid red;
    clear: left;
}
</style>
<body>

<div class="div1">div1</div>
<div class="div2">div2</div>
</body>
</body>
```



Clearfix

```
<style>
div {
  border: 3px solid #4CAF50;
  padding: 5px;
.img1 {
  float: right;
.img2 {
  float: right;
.clearfix {
  overflow: auto;
</style>
<div>
  <img class="img1" src="pineapple.jpg" alt="Pineapple" width="170" height="170">
  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus imperdiet...
</div>
<div class="clearfix">
  <img class="img2" src="pineapple.jpg" alt="Pineapple" width="170" height="170">
  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus imperdiet...
</div>
</body>
```



Example

```
<style>
      box-sizing: border-box;
    .box {
      float: left;
      width: 50%;
      padding: 50px;
      height: 300px;
    </style>
    <body>
    <h2>Equal Height Boxes</h2>
    Floating boxes with equal heights:
    <div class="clearfix">
      <div class="box" style="background-color:#bbb">
      <h2>Box 1</h2>
      Some content, some content, some content
      <div class="box" style="background-color:#ccc">
      <h2>Box 2</h2>
      Some content, some content, some content
      Some content, some content, some content
      Some content, some content, some content
      </div>
    </div>
    </body>
```



Flex property

```
<style>
.flex-container {
 display: flex;
 flex-wrap: nowrap;
 background-color: DodgerBlue;
.flex-container .box {
 background-color: #f1f1f1;
 width: 50%;
 margin: 10px;
 text-align: center;
 line-height: 75px;
 font-size: 30px;
</style>
<h1>Flexible Boxes</h1>
<div class="flex-container">
 <div class="box">Box 1 - This is some text </div>
 <div class="box">Box 2 - My height will follow Box 1.</div>
</div>
</body>
```



Practise

Chania

The Flight

The Island

The Food

The City

Chania is the capital of the Chania region on the island of Crete. The city can be divided in two parts, the old town and the modern city.

You will learn more about web layout and responsive web pages in a later chapter.

Footer Text



Using inline-block to Create Navigation Links

```
<style>
.nav {
 background-color: yellow;
 list-style-type: none;
 text-align: center;
 margin: 0;
 padding: 0;
.nav li {
 display: inline-block;
 font-size: 20px;
 padding: 20px;
</style>
</head>
<body>
<a href="#home">Home</a>
 <a href="#about">About Us</a>
 <a href="#clients">Our Clients</a>
 <a href="#contact">Contact Us</a>
</body>
```



Center Align Elements

```
.center {
    margin: auto;
    width: 60%;
    border: 3px solid #73AD21;
    padding: 10px;
}
    </style>
    </head>
    <body>

    </div class="center">
        Hello World!
    </div>
```



Center Align Text



Center an Image

```
img {
    display: block;
    margin-left: auto;
    margin-right: auto;
}
    </style>
    </head>
    <body>

<img src="paris.jpg" alt="Paris" style="width:40%">
    </body>
```



Left and Right Align - Using position

```
.right {
    position: absolute; //float right
    right: 0px;
    width: 300px;
    border: 3px solid #73AD21;
    padding: 10px;
    }
    </style>
    </head>
    <body>

    </div class="right">
        In my younger and more vulnerable years my father gave me some advice that I've been turning over in my mind ever since.
    </div>
    </div>
    </div>
    </div>
    </div>
```



Center vertically

```
.center {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 200px;
    border: 3px solid green;
}
    </style>
    </head>
    <body>

    </div class="center">
         I am vertically and horizontally centered.
    </div>
    </div>
    </body>
```



CSS Combinators

A combinator is something that explains the relationship between the selectors.

There are four different combinators in CSS:

- descendant selector (space)
- child selector (>)
- adjacent sibling selector (+)
- general sibling selector (~)



Descendant Selector

```
<style>
 div p {
   background-color: yellow;
 </style>
<body>
 <h2>Descendant Selector</h2>
 The descendant selector matches all elements that are
descendants of a specified element.
 <div>
   Paragraph 1 in the div.
   Paragraph 2 in the div.
   <section>Paragraph 3 in the div.</section>
 </div>
 Paragraph 4. Not in a div.
 Paragraph 5. Not in a div.
 </body>
```



Child Selector (>)

```
<style>
div > p {
 background-color: yellow;
}
</style>
<body>
<div>
 Paragraph 1 in the div.
 Paragraph 2 in the div.
 <section>
   <!-- not Child but Descendant -->
   Paragraph 3 in the div (inside a section element).
 </section>
 Paragraph 4 in the div.
</div>
Paragraph 5. Not in a div.
Paragraph 6. Not in a div.
</body>
```



Adjacent Sibling Selector (+)

```
<style>
 div + p {
   background-color: yellow;
 </style>
 <body>
 <div>
   Paragraph 1 in the div.
   Paragraph 2 in the div.
 </div>
 Paragraph 3. After a div.
 Paragraph 4. After a div.
 <div>
   Paragraph 5 in the div.
   Paragraph 6 in the div.
 </div>
 Paragraph 7. After a div.
 Paragraph 8. After a div.
 </body>
```



General Sibling Selector (~)

Practice: use all combinator in 5 div



CSS Pseudo-classes

Syntax

```
selector:pseudo-class {
  property: value;
}
```

Pseudo-classes and HTML Classes

```
<style>
  p:hover{
    font-size: 48px;
    color: brown;
  }
</style>

<body>
  Hello Student
</body>
</body>
```



```
div {
   background-color: green;
   color: white;
   padding: 25px;
   text-align: center;
}

div:hover {
   background-color: blue;
}
</style>
</body>
```



Simple Tooltip Hover

```
/*style>
p {
    display: none;
    background-color: yellow;
    padding: 20px;
}

div:hover p {
    display: block;
}

//style>

/body>

//div>
//body>

//body>
```



```
<style>
  p:first-child {
    color: blue;
}
  </style>
  <body>

  This is some text.
  This is some text.
  <div>
    This is some text.
  <div>
    This is some text.
  </div>
  </body>
```



```
<style>
p i:first-child {
  color: blue;
}
</style>
</head>
<body>

I am a <i>strong</i> person. I am a <i>strong</i> person.
I am a <i>strong</i> person. I am a <i>strong</i> person.
I am a <i>strong</i> person. I am a <i>strong</i> person.
I am a <i>strong</i> person. I am a <i>strong</i> person.

</body>
```



```
<style>
p:first-child i {
 color: blue;
</style>
<body>
I am a <i>strong</i> person. I am a <i>strong</i>
person.
I am a <i>strong</i> person. I am a <i>strong</i>
person.
<div>
 I am a <i>strong</i> person. I am a <i>strong</i>
person.
 I am a <i>strong</i> person. I am a <i>strong</i>
person.
</div>
</body>
```



```
<style>
p i:nth-child(2) {
 color: blue;
</style>
</head>
<body>
I am a <i>strong</i> person. I am a <i>strong</i>
person.
I am a <i>strong</i> person. I am a <i>strong</i>
person.
<div>
  I am a <i>strong</i> person. I am a <i>strong</i>
person.
 I am a <i>strong</i> person. I am a <i>strong</i>
person.
</div>
</body>
```



CSS Pseudo-elements

Syntax

```
selector::pseudo-element {
  property: value;
}
```

The ::first-line Pseudo-element

```
/*style>
p::first-line {
    color: #ff0000;
    font-variant: small-caps;
}

//style>

//style>

//style>

//style pseudo-element to add a special effect to the first line of a text. Some more text. And even more, and more.
```



The ::first-letter Pseudo-element

```
<style>
  p::first-letter {
    color: #ff0000;
    font-size: xx-large;
}
  </style>
  <body>
  You can use the ::first-letter pseudo-element to add a
special effect to the first character of a text!
  </body>
```



CSS - The ::before Pseudo-element

```
<style>
  h1::before {
    content: url(smiley.gif);
}
</style>
</head>
<body>
<h1>This is a heading</h1>
</body>
</body>
</body>
```



CSS - The ::after Pseudo-element

```
    h1::after {
        content: url(smiley.gif);
    }
    </style>
    </head>
    <body>

    <h1>This is a heading</h1>
    </body>

    </body>
```



CSS - The ::marker Pseudo-element

```
<style>
 ::marker {
  color: red;
  font-size: 23px;
 </style>
 </head>
 <body>
 <l
  Coffee
  Tea
  Milk
 First
  Second
  Third
 </body>
```



CSS Opacity / Transparency

Transparent Image

```
img {
   opacity: 0.5;
}
</style>
<body>

img src="img_forest.jpg" alt="Forest" width="170"
height="100">
</body>
```



```
img {
    opacity: 0.5;
}

img:hover {
    opacity: 1.0;
}

</style>

<body>

<img src="img_forest.jpg" alt="Forest" width="170"
height="100">
    <img src="img_mountains.jpg" alt="Mountains" width="170"
height="100">
    <img src="img_5terre.jpg" alt="Italy" width="170"
height="100">
    </body>
</body>
```



Navigation Bar

Navigation Bar = List of Links

Vertical Navigation Bar

```
vl {
    list-style-type: none;
    margin: 0;
    padding: 0;
    width: 200px;
    background-color: #f1f1f1;
}

li a {
    display: block;
    color: #000;
    padding: 8px 16px;
    text-decoration: none;
}
```



```
/* Change the link color on hover */
li a:hover {
   background-color: #555;
   color: white;
}
</style>
<body>

   <a href="#home">Home</a>
   <a href="#news">News</a>
   <a href="#contact">Contact</a>
   <a href="#about">About</a>
   <a href="#about">About</a>

//body>
```

Active/Current Navigation Link

```
li a.active {
  background-color: #04AA6D;
  color: white;
}
```



Horizontal Navigation Bar

Home	News	Dropdown	
Dropdow	n Menu	Link 1	Bar
Hover over	the "Drop	Link 2	pdown men
		Link 3	

Image dropdown

task



of the image here



Add a description of the image here



Add a description of the image here



Add a description of the image here



Image Sprites

Image Sprites - Simple Example

Instead of using three separate images, we use this single image ("img_navsprites.gif"):





Attribute Selectors

[attribute="value"] Selector



```
<style>
    a[target="_blank"] {
        background-color: yellow;
    }
    </style>
    <body>

    <a href="https://www.w3schools.com">w3schools.com</a>
        <a href="http://www.disney.com"
target="_blank">disney.com"

</body>
```



[attribute~="value"] Selector



[attribute|="value"] Selector

```
<style>
    [class|="top"] {
        background: yellow;
    }
    </style>
    <body>

<h1 class="top-header">Welcome</h1>
        Hello world!
        Are you learning CSS?
        </body>
```



[attribute^="value"] Selector

```
(style>
    [class^="top"] {
        background: yellow;
}
</style>
</body>

<h1 class="top-header">Welcome</h1>
Hello world!
Are you learning CSS?
</body>
```



Styling Forms

```
<style>
    input[type="text"] {
     width: 150px;
     display: block;
     margin-bottom: 10px;
     background-color: yellow;
    }
    input[type="button"] {
     width: 120px;
     margin-left: 35px;
     display: block;
    </style>
    <body>
    <form name="input" action="" method="get">
      Firstname:<input type="text" name="Name" value="Peter"</pre>
size="20">
```



Lastname:<input type="text" name="Name" value="Griffin"

Your name		
ast Name		
Your last name		
Country		
Australia	Try it Yoursel	»
Australia	Try it Yourself	
size="20">	t type="button" value=	»



```
<style>
    input[type=text] {
      width: 100%;
      padding: 12px 20px;
      margin: 8px 0;
      box-sizing: border-box;
      border: 1px solid #555;
      outline: none;
    input[type=text]:focus {
      background-color: lightblue;
    </style>
    <body>
        <form>
            <label for="fname">First Name</label>
            <input type="text" id="fname" name="fname"</pre>
value="John">
            <label for="lname">Last Name</label>
            <input type="text" id="lname" name="lname"</pre>
value="Doe">
```



```
</form>
</body>
```

```
<style>
   input[type=text] {
     width: 100%;
     box-sizing: border-box;
     border: 2px solid #ccc;
     border-radius: 4px;
     font-size: 16px;
     background-color: white;
     background-image: url('searchicon.png');
     background-position: 10px 10px;
     background-repeat: no-repeat;
     padding: 12px 20px 12px 40px;
   </style>
   <body>
    <form>
     <input type="text" name="search" placeholder="Search..">
    </form>
```



</body>



Animated Search Input

```
<style>
   input[type=text] {
     width: 130px;
     box-sizing: border-box;
     border: 2px solid #ccc;
     border-radius: 4px;
     font-size: 16px;
     background-color: white;
     background-image: url('searchicon.png');
     background-position: 10px 10px;
     background-repeat: no-repeat;
     padding: 12px 20px 12px 40px;
     transition: width 0.4s ease-in-out;
   input[type=text]:focus {
     width: 100%;
    </style>
```



```
<body>

<form>
     <input type="text" name="search" placeholder="Search..">
     </form>
     </body>
```

Styling Select Menus

```
    select {
        width: 100%;
        padding: 16px 20px;
        border: none;
        border-radius: 4px;
        background-color: #f1f1f1;
    }
    </style>
    <body>

    <form>
        <select id="country" name="country">
            <option value="au">Australia</option>
            <option value="ca">Canada</option>
            <option value="usa">USA</option>
            </select>
```



</form>

</body>





Practice

FIRST NAME:	Enter first name	(max 30 characters A-Z and a-z)		
LAST NAME:	Enter last name	(max 30 characters A-Z and a-z)		
DATE OF BIRTH:	Day Month V Year			
EMAIL ID:		\supset		
MOBILE NO:	Enter Mobile no	(10 digits number)		
GENDER:	• Female • Male			
ADDRESS:				
CITY:	Enter your city name			
PIN CODE:	Enter pin code	(6 digits number)		
STATE:	Enter your state name			
COUNTRY:	Enter your city name			
HOBBIES	Singing Dancing D. Others Enter any other hotby	rawina Sketching		
QUALIFICATION	S.NO Examination 1. Class X 2. Class XII 3. Graduation 4. Masters (10 char n	Percentage Year of Passir		
COURSES:	■ BCA ■ B.Com ■ B.Sc ■	BA		



