

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

PART 2

CSS

CSS Forms

CSS Styling Forms

CSS ka use HTML forms ko style karne ke liye hota hai. CSS se ek HTML form ka look kaafi improve ho sakta hai:



First Name

Last Name

Country

Styling Form Input Fields

CSS se aap kai tarah ke input types ko style kar sakte ho, jaise text fields, password fields, checkboxes, radio buttons, aur file inputs. Aap input labels aur form buttons ko bhi style kar sakte ho.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Kuch commonly used CSS properties jo input fields ko style karte hain, wo hain:

- width
- padding
- margin
- border
- border-radius
- background-color
- color
- font-size

Style Input Width

width property ka use input field ka width set karne ke liye hota hai.

Tip: By default, ek HTML input text field ka width 20 characters hota hai.

Yahan hum width ko 100% set kar rahe hain:

First Name

```
input {  
  width: 100%;  
}
```

Upar wale example mein yeh sabhi `<input>` elements pe apply hota hai. Agar aap sirf kisi specific input type ko style karna chahte hain, toh aap attribute selectors ka use kar sakte hain:

- `input[type=text]` - sirf text fields ko select karega
- `input[type=password]` - sirf password fields ko select karega
- `input[type=number]` - sirf number fields ko select karega
- etc..

Style Input Padding

padding property ka use text field ke andar kuch space add karne ke liye hota hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Tip: Jab aapke paas kai input fields ek ke baad ek hon, toh aap margin bhi add kar sakte hain, taaki unke aas paas thoda aur space ho.

First Name

Last Name

```
input[type=text] {  
  width: 100%;  
  padding: 12px;  
  margin: 10px 0;  
  box-sizing: border-box;  
}
```

Yahaan humne `box-sizing` property ko `border-box` set kiya hai. Iska matlab hai ki padding aur border ko input field ke total width aur height mein include kiya jayega.

Style Input Border

border property ka use border ka size aur color change karne ke liye hota hai, aur **border-radius** property ka use rounded corners banane ke liye hota hai:

First Name

```
input[type=text] {  
  border: 2px solid red;  
  border-radius: 8px;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Agar aap sirf bottom border chahte hain, toh aap **border-bottom** property ka use kar sakte hain:

First Name

```
input[type=text] {  
  border: none;  
  border-bottom: 1px solid red;  
}
```

Style Input Background Color and Color

background-color property ka use input ka background color change karne ke liye hota hai, aur **color** property ka use text color change karne ke liye hota hai:

John

```
input[type=text] {  
  background-color: #3CBC8D;  
  color: white;  
}
```

Style Input with Focus

By default, kuch browsers input ko focus hone par blue outline add kar dete hain. Aap is behavior ko **outline: none;** se remove kar sakte hain.

Agar aap chahte hain ki input field focus hone par kuch change ho, toh aap **:focus** selector ka use kar sakte hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
<input[type=text]:focus {  
  background-color: lightblue;  
}
```

Ya phir border change karne ke liye:

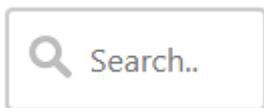
Example

```
<input[type=text]:focus {  
  border: 3px solid #555;  
}
```

Style InP

ut with Icon/Image

Agar aap input field ke andar icon rakhna chahte hain, toh **background-image** property ka use kar sakte hain aur **background-position** property se icon ko position kar sakte hain. Iske liye aapko left padding bhi zyada dena hoga taaki icon ke liye space reserved ho:



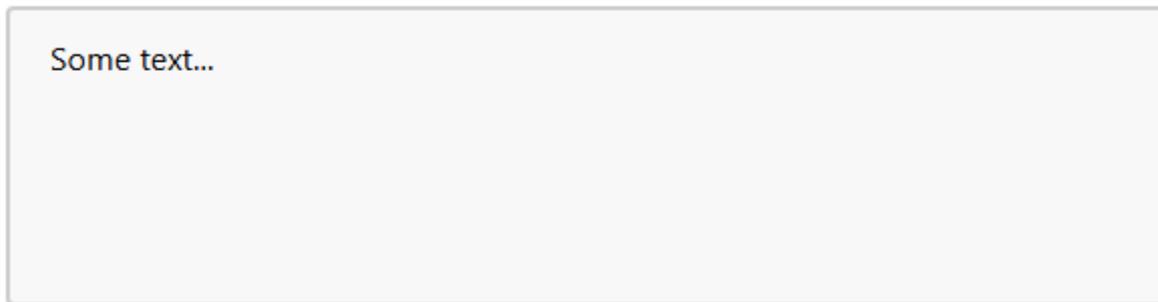
```
input[type=text] {  
  background-color: white;  
  background-image: url('searchicon.png');  
  background-position: 10px 10px;  
  background-repeat: no-repeat;  
  padding-left: 40px;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Animated Search Input

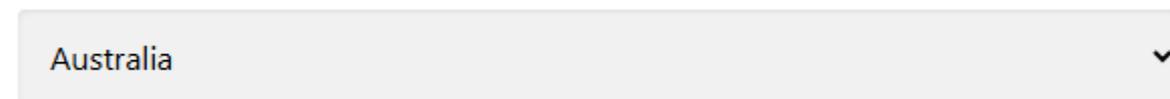
In this example, we are using the **CSS transition** property to animate the search input's width when it gains focus. We will cover CSS transitions in more detail in the next chapters.



```
input[type=text] {  
  transition: width 0.4s ease-in-out;  
}  
  
input[type=text]:focus {  
  width: 100%;  
}
```

Style Textarea

By default, a `<textarea>` can be resized from the bottom right corner. If you want to remove this option, you can use the **resize: none;** property.



```
textarea {  
  width: 100%;  
  height: 150px;  
  padding: 12px 20px;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
box-sizing: border-box;
border: 2px solid #ccc;
border-radius: 4px;
background-color: #f8f8f8;
resize: none;
}
```

Style a Dropdown Menu

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

Style Form Buttons

Form buttons jo **button**, **submit**, aur **reset** type ke hote hain, unko bhi CSS se style kiya ja sakta hai:

```
input[type=button], input[type=submit], input[type=reset] {
background-color: #04AA6D;
border: none;
color: white;
padding: 16px 32px;
text-decoration: none;
margin: 4px 2px;
cursor: pointer;
}
```

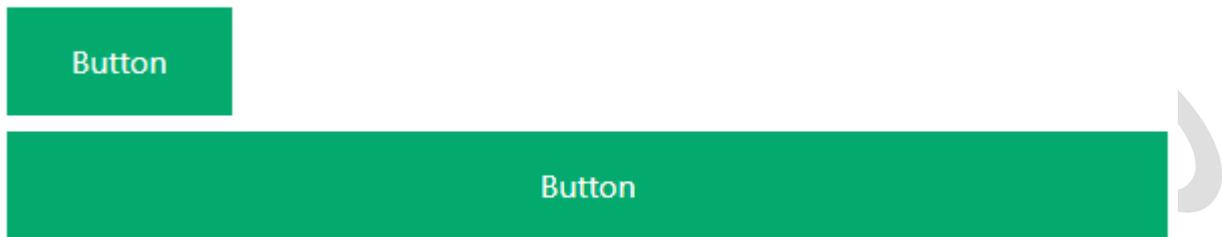
/* Tip: use width: 100% for full-width buttons */

Tip: Buttons ko style karne ke liye aur jankari ke liye, aap humare **CSS Buttons Tutorial** ka reference le sakte hain.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

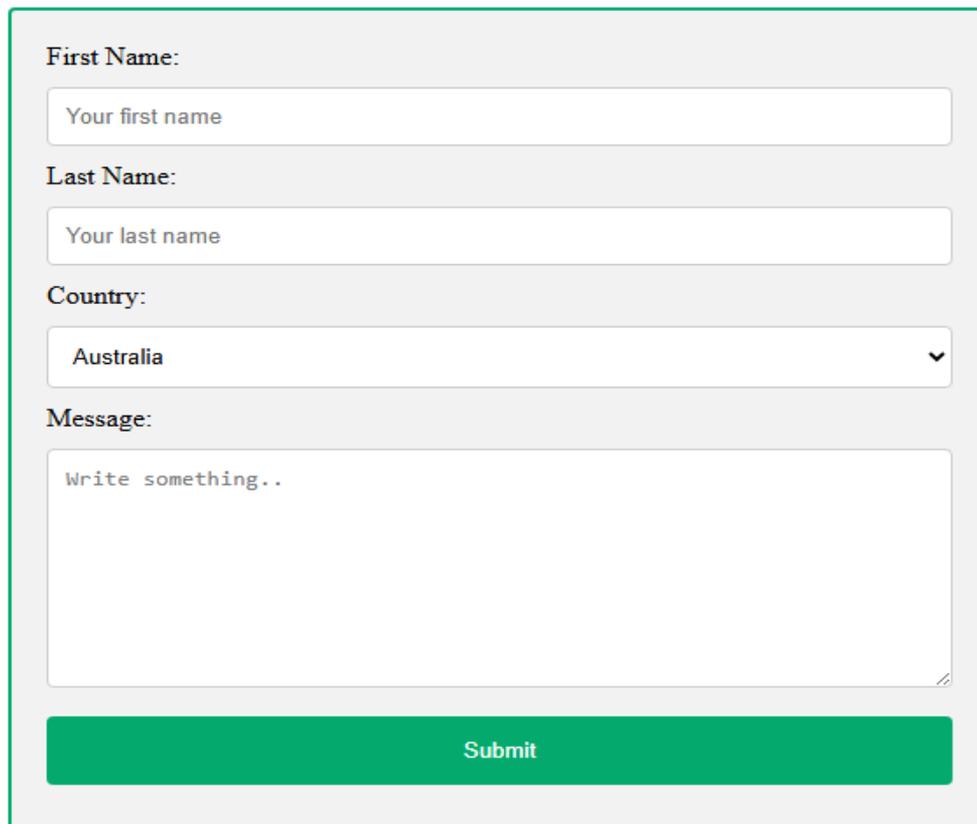
Website: <https://learninghubshahabad.in>

CSS Responsive Form



Niche wala example CSS media queries ka use karta hai taaki form responsive ho sake. Jab screen ki width 600px se kam ho, tab labels aur input fields ek ke upar ek stack ho jate hain, na ki side by side.

Screen ko resize karke form ka layout change hote hue dekh sakte hain!



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

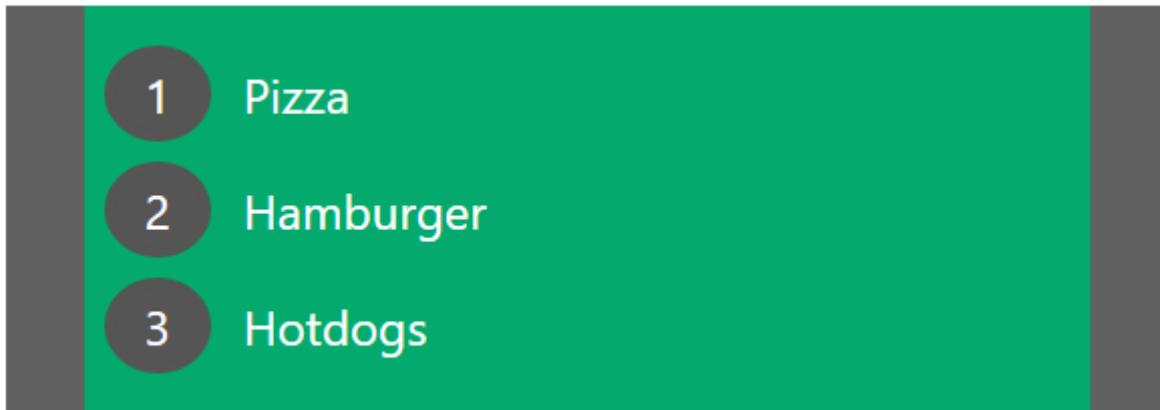
Website: <https://learninghubshahabad.in>

CSS Counters

CSS Counters se aap dynamic numbering create kar sakte ho elements ka (jaise headings, sections, ya list items) bina JavaScript ke use kiye.

CSS counters ko "variables" samjha ja sakta hai, aur unke values ko CSS rules ke through increment (ya decrement) kiya ja sakta hai.

Example:



CSS Automatic Numbering With Counters

CSS counters basically "variables" hote hain. Inke values ko increment (ya decrement) kiya ja sakta hai CSS rules ke through.

CSS counters ko use karne ke liye kuch important properties hoti hain:

- **counter-reset:** Counter ko create ya reset karta hai.
- **counter-increment:** Counter ko increment ya decrement karta hai.
- **content:** Generated content insert karta hai (ye ::before aur ::after me use hota hai content ko insert karne ke liye).
- **counter()** aur **counters()** functions: Ye counter ki value ko element me add karte hain.

Counter use karne ke liye, sabse pehle aapko counter ko **counter-reset** property se create karna padta hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Increase and Decrease Counter

In this example, we will create a counter for each page (body selector), and then we will increment the counter value by 1 for each `<h2>` element and add the text "Section + countervalue:" to the start of each `<h2>` element.

Example 1:

```
body {
  counter-reset: section;
}

h2::before {
  counter-increment: section;
  content: "Section " counter(section) ": ";
}
```

counter-increment has a second parameter. Its default value is 1, which means it increments the counter by 1. If you want to decrease the counter, you can set it to -1.

Example 2: Decrement counter by 1

```
body {
  counter-reset: section;
}

h2::before {
  counter-increment: section -1;
  content: "Section " counter(section) ": ";
}
```

Example 3: Increment counter by 2

```
body {
  counter-reset: section;
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
h2::before {  
  counter-increment: section 2;  
  content: "Section " counter(section) ": ";  
}
```

CSS Using Two Counters

In this example, we will create a counter for the page (which we will name "section") and another counter for the subsection (which we will name "subsection"). The "section" counter will be used for the <h1> element, and the "subsection" counter will be used for the <h2> element. The format of the counter will be "sectioncounter.subsectioncounter".

Example:

```
body {  
  counter-reset: section;  
}  
  
h1 {  
  counter-reset: subsection;  
}  
  
h1::before {  
  counter-increment: section;  
  content: "Section " counter(section) ". ";  
}  
  
h2::before {  
  counter-increment: subsection;  
  content: counter(section) "." counter(subsection) " ";  
}
```

The CSS counters() Function

The **counters()** function allows you to retrieve the current values of named and nested counters. It returns a string containing the values of the counters in the order they were named.

For example, if you have two counters named "section" and "subsection", the **counters()** function will return a string like "1.1".

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:

```
ol {  
  counter-reset: section;  
  list-style-type: none;  
}  
  
li::before {  
  counter-increment: section;  
  content: counters(section, ".") " ";  
}
```

Yeh CSS counters ka basic use hai, jo aapko elements ko dynamically number karne me madad karega.

CSS Units

CSS me kai tarah ke units hote hain jo length ko express karte hain.

Bahut sari CSS properties, jaise width, margin, padding, font-size, etc., length value leti hain.

Length value ek number hota hai, jo length unit ke saath hota hai, jaise px, em, rem, etc.

CSS me do types ke length units hote hain:

1. Absolute units
2. Relative units

CSS Absolute Units

Absolute units fixed hote hain, aur inka size hamesha wahi rehta hai, chahe screen size kuch bhi ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Absolute units screen size ke change hone par change nahi hote, isliye yeh websites ke liye recommended nahi hote. Lekin, agar output medium ka pata ho, jaise print layout, tab inka use ho sakta hai.

Sabse zyada use hone wala absolute unit hai px (pixels).

Units Description:

Unit	Description
px	Pixels (1px = 1/96th of 1 inch)
cm	Centimeters
mm	Millimeters
in	Inches (1in = 96px = 2.54cm)
pt	Points (1pt = 1/72 of 1 inch)
pc	Picas (1pc = 12pt)

Set Font Size With Px

Jab aap text size px (pixels) se set karte ho, to aapko text size pe poora control milta hai.

Lekin agar aap pixels use karte ho, to web page har screen size par achha scale nahi hota aur users ko browser settings se text size adjust karne ka option nahi milta. Par users zoom tool ka use karke poore page ko resize kar sakte hain.

Example:

```
h1 {  
  font-size: 40px;  
}  
  
h2 {  
  font-size: 30px;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
p {  
  font-size: 16px;  
}
```

Note: Jab aap value likhte ho to number aur unit ke beech whitespace nahi hona chahiye. Lekin agar value 0 ho, to unit ko omit kar sakte hain.

CSS Relative Units

Relative units ek length ko doosre length se compare karte hain, jaise parent element, root element, ya viewport.

Relative length units different screen sizes ke beech better scale karte hain.

Units Description:

Unit	Description
<code>em</code>	Parent element ke font-size ke relative
<code>ex</code>	Current font ke x-height ke relative (rarely used)
<code>ch</code>	"0" (zero) ke width ke relative
<code>fr</code>	Fractional unit (1 fr = available space ka 1 part)
<code>rem</code>	Root HTML element ke font-size ke relative
<code>vw</code>	1% of the viewport width ke relative (100vw = viewport ka full width)
<code>vh</code>	1% of the viewport height ke relative (100vh = viewport ka full height)
<code>vmin</code>	Viewport ke smaller dimension ke relative (1% of smaller dimension)

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Unit	Description
<code>vmax</code>	Viewport ke larger dimension ke relative (1% of larger dimension)
<code>%</code>	Parent element ke size ke relative

Tip: `em` aur `rem` units responsive aur scalable websites banane ke liye perfect hain!

Set Font Size With Em

`em` unit parent element ke font size ke relative hoti hai. Maan lijiye agar parent element ka font size 16px hai, to `2.5em` ka result 40px hoga.

Is example me, jo text size `em` ke saath set kiya gaya hai, wo pehle wale example jaisa hi hai pixels ke liye. Lekin `em` unit se user browser settings me text size adjust kar sakta hai.

Example:

```
body {
  font-size: 16px; /* Base font size */
}

h1 {
  font-size: 2.5em; /* 2.5 * 16 = 40px */
}

h2 {
  font-size: 1.875em; /* 1.875 * 16 = 30px */
}

p {
  font-size: 1em; /* 1 * 16 = 16px */
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Set Font Size With Rem

`rem` unit root HTML element (`<html>`) ke font size ke relative hoti hai.

`em` ke comparison me, jo parent element ka font-size hota hai, `rem` hamesha `<html>` element ke font-size se related hota hai, chahe wo document tree me kahin bhi ho. Isliye `rem` responsive designs banane ke liye kaafi useful hai. Agar aap `<html>` element ka font size change karte ho, to `rem` unit se size kiye gaye saare elements proportionally scale karenge.

Default font size `<html>` element ka most browsers me 16px hota hai. Toh by default, 1rem = 16px hota hai, jab tak CSS me isse override na kiya ho.

Example:

```
html {
  font-size: 16px; /* Set the root font size */
}

h1 {
  font-size: 2.5rem; /* 2.5 * 16 = 40px */
}

h2 {
  font-size: 1.875rem; /* 1.875 * 16 = 30px */
}

p {
  font-size: 1rem; /* 1 * 16 = 16px */
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yeh tha CSS me units ka overview. px, em, aur rem sab se zyada use hote hain, aur aap unhe scalable aur responsive websites banane ke liye use kar sakte ho.

CSS Inheritance

CSS inheritance ka matlab hai ki agar kisi element pe kisi property ka value specify nahi kiya gaya ho, to us property ki value kya hogi.

Agar kisi property ka value set nahi kiya gaya, to wo ya to parent element se inherit ho sakti hai, ya phir us property ka initial (default) value set ho jayega.

CSS inheritance ke liye properties ko do types me categorize kiya jata hai:

1. **Inherited Properties**
2. **Non-inherited Properties**

Inherited Properties

Inherited properties, by default, parent element ke computed value ko inherit kar leti hain.

Jo properties text se related hoti hain, jaise color, font-family, font-size, line-height, aur text-align, wo typically inherit hoti hain. Isse document me text styling consistent rehti hai.

Example:

Is example me `` element ka text 20px size me blue color ka dikhai dega, kyunki `` element apne parent (`<p>`) element se color aur font-size value inherit kar raha hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<style>
p {
  color: blue;
  font-size: 20px;
}
</style>

<body>
<p>This is a paragraph with
some <strong>important</strong> text.</p>
</body>
```

Non-inherited Properties

Agar kisi non-inherited property ka value set nahi hota, to us property ka value uske initial (default) value pe set ho jata hai.

Box model ya layout se related properties, jaise border, background, margin, padding, width, aur height, typically inherit nahi hoti.

Example:

Is example me element ko <p> element ke andar koi additional border nahi milega, kyunki border-style ki initial value none hoti hai.

```
<style>
p {
  border: 1px solid red;
}
</style>

<body>
<p>This is a paragraph with
some <strong>important</strong> text.</p>
</body>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The inherit Keyword

`inherit` keyword ka use karke aap explicitly inheritance specify kar sakte ho. Yeh dono inherited aur non-inherited properties pe kaam karta hai.

Example:

Is example me `` element ko `<p>` element ke border ki value inherit milegi, kyunki humne explicitly `inherit` keyword use kiya hai taaki border ki value inherit ho.

```
<style>
p {
  border: 1px solid red;
}

strong {
  border: inherit;
}
</style>

<body>
<p>This is a paragraph with some <strong>strong</strong> text.</p>
</body>
```

Yeh tha CSS inheritance ka basic idea. Aap easily kisi property ko inherit kar sakte ho ya explicitly inherit karne ke liye `inherit` keyword ka use kar sakte ho.

CSS Specificity

CSS specificity ek algorithm hai jo yeh determine karta hai ki kis style declaration ko element par apply kiya jayega.

Agar do ya zyada CSS rules same element par point karte hain, to jo declaration ki specificity sabse zyada hogi, wahi style HTML element par apply hoga.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Chaliye kuch examples dekhte hain:

Example 1:

Yahaan humne `<p>` elements ke liye red color specify kiya hai. Result: Text red dikhai dega:

```
<html>
<head>
  <style>
    p {color: red;}
  </style>
</head>
<body>

<p>Hello World!</p>

</body>
</html>
```

Example 2:

Yahaan humne ek class selector (`.test`) add kiya hai, aur is class ke liye green color specify kiya hai. Result: Text green dikhai dega, kyunki class selector ki specificity zyada hoti hai:

```
<html>
<head>
  <style>
    .test {color: green;}
    p {color: red;}
  </style>
</head>
<body>

<p class="test">Hello World!</p>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
</body>  
</html>
```

Example 3:

Yahaan humne ek id selector (#demo) add kiya hai. Result: Text blue dikhai dega, kyunki id selector ki specificity zyada hoti hai:

```
<html>  
<head>  
  <style>  
    #demo {color: blue;}  
    .test {color: green;}  
    p {color: red;}  
  </style>  
</head>  
<body>  
  
<p id="demo" class="test">Hello World!</p>  
  
</body>  
</html>
```

Example 4:

Yahaan humne <p> element ke liye inline style add kiya hai. Result: Text pink dikhai dega, kyunki inline style ki specificity sabse zyada hoti hai:

```
<html>  
<head>  
  <style>  
    #demo {color: blue;}  
    .test {color: green;}  
    p {color: red;}  
  </style>  
</head>  
<body>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<p id="demo" class="test" style="color: pink;">Hello World!</p>
```

```
</body>
```

```
</html>
```

CSS Specificity Hierarchy

Har type ka CSS selector ek specific position pe hota hai specificity hierarchy mein, aur unke paas alag-alag "weights" hote hain.

Selector Hierarchy and Weights:

Selector	Example	Description	Weight
Inline styles	<code><h1 style="color: pink;"></code>	Highest priority, sabse zyada specific, sab selectors ko override karega	Highest
Id selectors	<code>#navbar</code>	Second highest priority	1-0-0
Classes, attribute selectors and pseudo-classes	<code>.test, [type="text"], :hover</code>	Third highest priority	0-1-0
Elements and pseudo-elements	<code>h1, ::before, ::after</code>	Low priority	0-0-1
Universal selector and :where()	<code>*, where()</code>	No priority	0-0-0

Jo declaration ki specificity ya weight value sabse zyada hogi, wahi element par apply hoga.

Example:

Specificity hierarchy aur weight:

```
<html>
```

```
<head>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<style>
  #demo {color: blue;} /* weight: 1-0-0 */
  p#demo {color: orange;} /* weight: 1-0-1 WINS! */
  .test {color: green;} /* weight: 0-1-0 */
  p.test {color: green;} /* weight: 0-1-1 */
  p {color: red;} /* weight: 0-0-1 */
</style>
</head>
<body>

<p id="demo" class="test">Hello World!</p>

</body>
</html>
```

More Specificity Examples

Equal Specificity: Latest Rule Wins

Agar ek rule do baar likha gaya ho external style sheet mein, to jo rule last me likha hoga, wahi apply hoga.

Example:

```
h1 {background-color: yellow;}
h1 {background-color: red;}
```

ID Selectors Beats Attribute Selectors

Agar pehla rule ID selector ka hai aur doosra attribute selector ka, to ID selector ki specificity zyada hogi aur pehla rule apply hoga.

Example:

```
#myDiv {background-color: yellow;}
div[id=myDiv] {background-color: blue;}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

A Class Selector Beats Element Selectors

Class selector, jaise `.intro`, element selectors (jaise `h1`, `p`, `div`) ko beat karta hai.

Example:

```
.intro {background-color: yellow;}  
h1 {background-color: red;}
```

The Universal Selector (*)

Universal selector (*) ka koi specificity weight nahi hota.

Example:

```
* {background-color: yellow;}  
h1 {background-color: red;}
```

Inline Style Sheets Are More Specific Than External Style Sheets

Embedded style sheet jo HTML file ke andar hota hai, wo external style sheet se zyada specific hota hai. Isliye last rule apply hota hai.

Example:

```
/*From external CSS file:*/  
#content h1 {background-color: red;}  
  
/*In HTML file:*/  
<style>  
#content h1 {background-color: yellow;}  
</style>
```

Yeh tha CSS specificity ka concept. Agar aapko multiple rules milte hain ek hi element ke liye, to jo rule sabse zyada specific hoga, wahi apply hoga.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS !important Rule

CSS !important Rule

!important rule ka use kisi specific property ko sabse zyada priority dene ke liye kiya jata hai.

!important rule us specific property ke liye sabhi pehle ke styling rules ko override kar deta hai!

!important keyword CSS declaration ke end mein, semicolon se pehle add kiya jata hai.

Syntax

```
selector {  
  property: value !important;  
}
```

CSS !important Rule Example

Neeche diye gaye example mein, sabhi teen paragraphs ko yellow background color milega, chahe inline style, id selector, aur class selector ki specificity zyada ho. !important rule sabhi styling rules ko override kar dega us specific property ke liye!

Example

Using the !important rule:

```
<html>  
<head>  
<style>  
p {  
  background-color: yellow !important;  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
#myid {
  background-color: blue;
}

.myclass {
  background-color: gray;
}

</style>
</head>
<body>

<p style="background-color:orange;">This is a paragraph.</p>
<p class="myclass">This is a paragraph.</p>
<p id="myid">This is a paragraph.</p>

</body>
</html>
```

Use !important Sparingly

!important rule ka use sirf zarurat ke time hi karna chahiye. Agar aapko !important rule ko override karna ho, toh aapko ek aur !important rule wahi property (ya zyada specificity ke sath) dena padega - aur yahan pe problem shuru hoti hai!

CSS code confuse karne wala ho sakta hai aur debugging karna mushkil ho jata hai, khaas kar jab aapke paas bohot bada stylesheet ho!

Example

Yeh nahi clear hota ki kaunsa color sabse important hai:

```
p {
  background-color: red !important;
}

#myid {
  background-color: blue !important;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
}  
  
.myclass {  
  background-color: gray !important;  
}
```

A Few Fair Uses of !important

!important rule kuch specific cases mein useful ho sakta hai, jaise:

1. **To override a style that cannot be overridden in any other way**
Agar aap Content Management System (CMS) mein kaam kar rahe hain aur aap CSS code ko directly edit nahi kar sakte, toh aap custom styles add kar sakte hain jo CMS ke styles ko override kar sake.
2. **To respect user preferences**
Kuch users motion sensitivity rakhte hain aur wo websites pe kam animation prefer karte hain. CSS ka @media feature prefers-reduced-motion ka use karke, aap dekh sakte hain ki user ne motion reduce karne ki setting activate ki hai ya nahi. Aap !important ka use kar ke animations aur transitions ko band ya tone down kar sakte hain un users ke liye jinke yeh setting apne computer par activate ki hai.

Example

```
@media (prefers-reduced-motion: reduce) {  
  * {  
    animation: none !important;  
    transition: none !important;  
  }  
}
```

Aap media queries ke baare mein aage jaake seekhenge.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

3. To create a highly specific, unchangeable style for a specific element

Agar aap kisi special look chahte hain kisi particular element ka, jaise link buttons ka, toh aap `!important` ka use kar sakte hain.

Example

Style link buttons with a gray background color, white text, and some padding and border:

```
a.button {  
  background-color: #8c8c8c;  
  color: white;  
  padding: 5px;  
  border: 1px solid black;  
  text-decoration: none;  
}
```

Ab, agar aap ek link button kisi aur element ke andar daalenge jiska specificity zyada hai, toh properties conflict kar sakti hain. Yeh ek example hai:

Example

```
a.button {  
  background-color: #8c8c8c;  
  color: white;  
  padding: 5px;  
  border: 1px solid black;  
  text-decoration: none;  
}  
  
#myDiv a {  
  color: red;  
  background-color: yellow;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Ab agar aap chaahte hain ki sabhi link buttons ka look same rahe, chahe wo kisi bhi element ke andar ho, toh aap `!important` rule use kar ke sabhi button properties ko fix kar sakte hain:

Example

```
a.button {  
  background-color: #8c8c8c !important;  
  color: white !important;  
  padding: 5px !important;  
  border: 1px solid black !important;  
  text-decoration: none !important;  
}
```

```
#myDiv a {  
  color: red;  
  background-color: yellow;  
}
```

CSS Math Functions

CSS Math Functions

CSS math functions allow mathematical expressions to be used as property values.

Is chapter mein hum following math functions ko samjhenge:

- `calc()`
- `max()`
- `min()`
- `clamp()`

The CSS `calc()` Function

`calc()` function ek mathematical calculation perform karta hai jo property value ke roop mein use hota hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

`calc()` function addition (+), subtraction (-), multiplication (*), aur division (/) ko support karta hai, aur different units ko combine bhi kar sakta hai, jaise pixels aur percentages.

CSS Syntax

`calc(expression)`

Value	Description
<code>expression</code>	Required. Ek mathematical expression. Result ko value ke roop mein use kiya jayega.

Chaliye ek example dekhte hain:

Example

`calc()` ka use karke `<div>` element ka width aur height calculate karna:

```
#div1 {  
  height: 100px;  
  width: max(50%, 300px);  
  border: 1px solid black;  
  padding: 10px;  
}
```

The CSS `max()` Function

`max()` function ek comma-separated values ki list leta hai, aur list mein se sabse bada value ko property value ke roop mein use karta hai.

CSS Syntax

`max(value1, value2, ...)`

Value	Description
<code>value1, value2, ...</code>	Required. Comma-separated values ka list.

Chaliye ek example dekhte hain:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

`max()` ka use karke `#div1` ki width set karna, jisme jo value largest hogi wo choose hogi: 50% ya 300px:

```
#div1 {  
  height: 100px;  
  width: min(50%, 300px);  
  border: 1px solid black;  
  padding: 10px;  
}
```

The CSS `min()` Function

`min()` function bhi ek comma-separated values ki list leta hai, aur list mein se sabse chhota value ko property value ke roop mein use karta hai.

CSS Syntax

```
min(value1, value2, ...)
```

Value	Description
<code>value1, value2, ...</code>	Required. Comma-separated values ka list.

Chaliye ek example dekhte hain:

Example

`min()` ka use karke `#div1` ki width set karna, jisme jo value smallest hogi wo choose hogi: 50% ya 300px:

```
#div1 {  
  height: 100px;  
  width: min(50%, 300px);  
  border: 1px solid black;  
  padding: 10px;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS `clamp()` Function

`clamp()` function ka use ek value set karne ke liye hota hai jo viewport ke size ke hisaab se responsively adjust hota hai, ek minimum aur maximum value ke beech.

`clamp()` function ke teen parameters hote hain:

1. Minimum value
2. Preferred value
3. Maximum value

Agar preferred value minimum value se chhoti ho ya maximum value se badi ho, toh preferred value ko use kiya jayega.

CSS Syntax

`clamp(min, preferred, max)`

Value	Description
<code>min</code>	Optional. Sabse chhoti allowed value.
<code>preferred</code>	Required. Preferred value.
<code>max</code>	Optional. Sabse badi allowed value.

Chaliye ek example dekhte hain:

Example

`<h2>` element ka minimum font-size 2rem set karna aur maximum font-size 3.5rem set karna.

`<p>` element ka minimum font-size 1rem set karna aur maximum font-size 2.5rem set karna:

```
h2 {  
  font-size: clamp(2rem, 2.5vw, 3.5rem);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
p {  
  font-size: clamp(1rem, 2.5vw, 2.5rem);  
}
```

CSS Performance Optimization

Optimizing CSS

CSS ko optimize karna aapki website ko jaldi load hone aur smoothly chalne mein madad karta hai, jisse user experience better hota hai.

Yahan kuch tips diye gaye hain CSS ko optimize karne ke liye:

1. Use Simple Selectors

Jab possible ho, simple selectors ka use karein. Complex selectors parsing time ko increase kar dete hain.

Bad Example

```
body #navlist ul li a.button:hover {  
  background-color: blue;  
}
```

Better Example

```
.button:hover {  
  background-color: blue;  
}
```

2. Avoid Universal Selector for Styling

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Universal selector (*) ka use karne se bachna chahiye jab strictly necessary na ho. Universal selector har element ko affect karta hai aur page rendering ko slow kar sakta hai.

Example

```
* {  
  margin: 0;  
  padding: 0;  
  font-size: 16px;  
}
```

3. Avoid Inline Styles

Jab zarurat na ho, inline styles ka use na karein. Inline styles aapke HTML ko heavier bana dete hain aur manage karna mushkil ho jata hai.

Bad Example

```
<div style="color: red; font-size: 18px;">Hello</div>  
<p style="color: blue; font-size: 16px;">Test</p>
```

4. Avoid @import

External CSS ko load karne ke liye @import ka use karne se bachna chahiye, kyunki yeh stylesheet loading ko delay karta hai.

External CSS ko <link> tag ke through head section mein add karein, taaki yeh page render hone se pehle load ho jaye.

Example

```
<link rel="stylesheet" href="style.css">
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

5. Use Shorthand Properties

Jab possible ho, shorthand properties ka use karein. Isse space save hota hai aur parsing bhi faster hota hai.

Example

```
/* Long version */  
margin-top: 10px;  
margin-right: 20px;  
margin-bottom: 10px;  
margin-left: 20px;
```

```
/* Shorthand version */  
margin: 10px 20px;
```

6. Cut Down Unnecessary Animations

Zyada animations aur bade animations zyada processing power ki demand karte hain, jo performance ko degrade karte hain. Isliye, unnecessary animations ko hata de.

7. Use Properties that Don't Cause Repaint of Animations

Animation performance bhi yeh depend karta hai ki aap kis property ko animate kar rahe hain.

Kuch properties (jaise width, height, left, top) jab animate hoti hain, toh layout recalculation trigger hota hai, jo avoid karna chahiye.

Agar possible ho, toh un properties ka use karein jo repaint trigger nahi karti, jaise transforms, opacity, aur filter.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

8. Combine and Minify CSS

Jab possible ho, ek CSS file ka use karein, aur file size ko reduce karne ke liye spaces aur comments ko remove karein.

Aap tools ka use kar sakte hain jaise:

- CSS Minifier
- PostCSS
- Online compressors

9. Cache Your CSS

Apne CSS file ko browser mein cache karne ke liye ensure karein, jisme aap server settings mein uski expiration time ko lamba set karein. Isse users ko baar-baar re-load karne ki zarurat nahi hoti.

Summary

- Selectors ko short aur simple rakhein
- Layout-thrashing operations se bachna chahiye
- Efficient animation techniques ka use karein
- External, minified, aur cached stylesheets ka use karein

CSS Accessibility Styling

CSS Accessibility Styling

Ek website ko is tarah se design karna chahiye ki wo sabhi users ke liye accessible ho, including un users ke jo disabilities rakhte hain.

CSS accessibility styling ka matlab hai achhi styling techniques ka use karke visual clarity, navigation, aur overall user experience ko improve karna.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Accessibility Styling Techniques

Yahan kuch tips aur techniques diye gaye hain jo aapke website ki accessibility ko improve kar sakte hain:

1. Provide High Color Contrast

Hamesha text aur background ke beech achha color contrast use karein, taaki readability acchi ho. Yeh khas taur par un users ke liye important hai jo visual impairments ya color blindness rakhte hain.

Good Color Contrast

```
body {  
  background-color: #ffffff;  
  color: #000000;  
}
```

Bad Color Contrast

```
body {  
  background-color: #eeeeee;  
  color: #cccccc;  
}
```

2. Provide Good Font, Font Size, and Line Height

Hamesha aise font ka use karein jo easily readable ho. Iske alawa, proper font size aur line height ka use karein. Font-size ke liye relative units (jaise rem) use karein, taaki user apne browser settings mein text size ko scale kar sake.

Good Font Example

```
body {  
  font-family: Arial, sans-serif;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
font-size: 1rem;  
line-height: 1.6;  
}
```

Bad Font Example

```
body {  
  font-family: Georgia, serif;  
  font-size: 12px;  
  font-style: italic;  
  font-variant: small-caps;  
  line-height: 90%;  
}
```

3. Have Visible Focus Indicators

Hamesha `:focus` pseudo-class ka use karein taaki interactive elements (jaise links, buttons, input fields) ka clear visual focus style ho.

`:focus` ka use ensure karega ki keyboard users aur screen readers samajh sakein ki kaunsa element abhi active hai.

Example

```
a:focus, button:focus, input:focus {  
  outline: 2px solid orange;  
}
```

4. Avoid Hiding Focus

Kabhi bhi default focus outlines ko remove na karein, bina unhe kisi aur visible focus style se replace kiye.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Bad Example

```
button:focus {  
  outline: none;  
}
```

Good Example

```
button:focus {  
  outline: 2px solid orange;  
}
```

5. Use CSS + Semantic HTML

CSS ko visual styling ke liye use karein, aur content ko semantic HTML elements ke saath structure karein (na ki non-semantic elements, jaise `<div>` har cheez ke liye).

Example

```
nav {  
  background-color: #333333;  
  color: white;  
}  
aside {  
  background-color: #333333;  
  color: white;  
}
```

6. Respect User Preferences

CSS ka `prefers-reduced-motion @media` feature ka use karein, taaki aap check kar sakein ki user ne motion reduce karne ki setting activate ki hai ya nahi, jaise animations ya transitions.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Kuch users motion sensitivity rakhte hain aur wo websites pe kam animation prefer karte hain. Aap is media query ka use karke animations aur transitions ko band ya tone down kar sakte hain un users ke liye jinhe yeh setting apne computer par activate ki hai:

Example

```
@media (prefers-reduced-motion: reduce) {  
  * {  
    animation: none !important;  
    transition: none !important;  
  }  
}
```

Aap media queries ke baare mein aage seekhenge.

Summary

- High color contrast provide karein
- Easily readable fonts ka use karein
- Focus outlines ko visible rakhein
- Semantic HTML elements ka use karein
- User preferences ka respect karein

CSS Website Layout

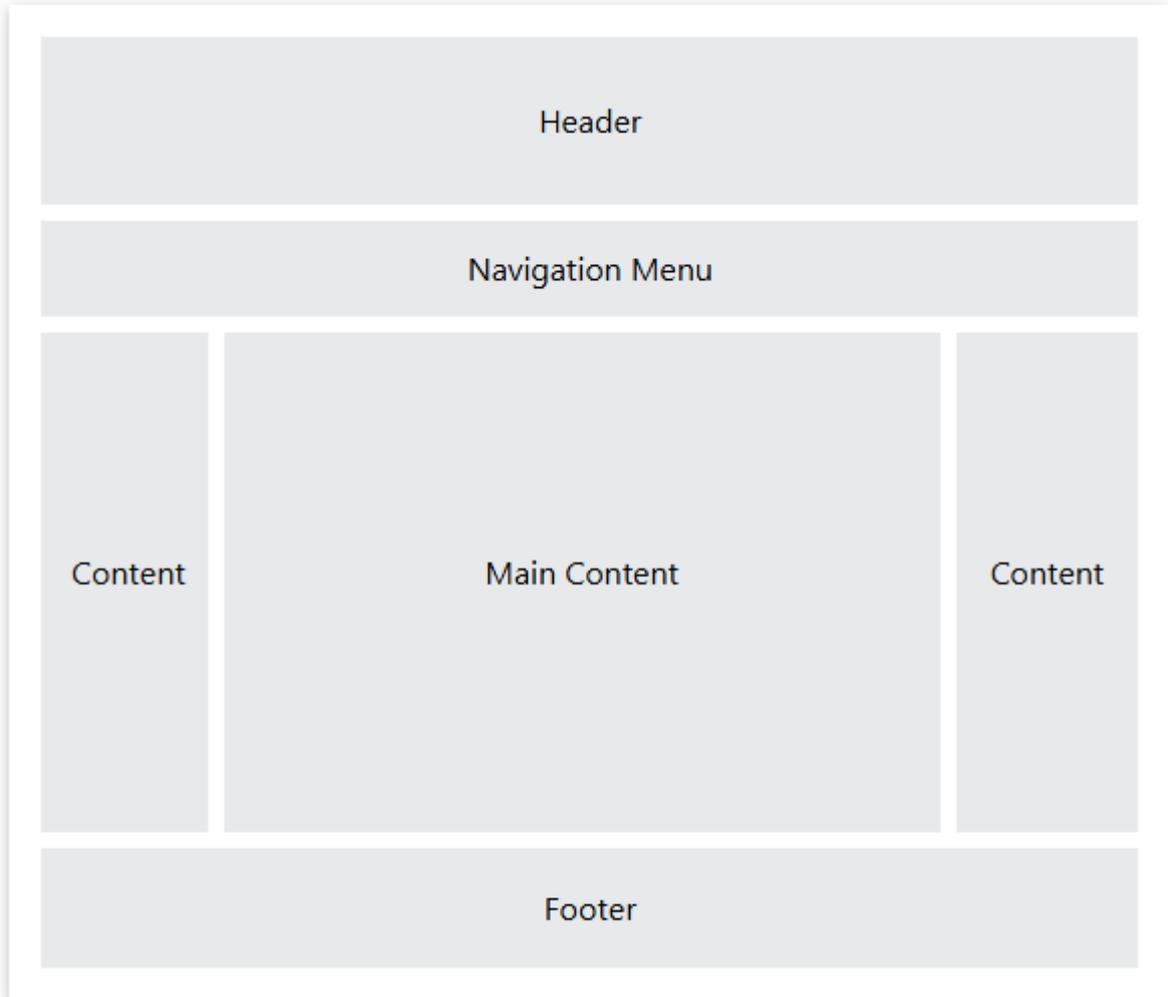
CSS Website Layout

Ek website ko aksar kai sections mein divide kiya jata hai, jaise top header, navigation menu, main content, aur footer:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Bahut saare alag-alag layout designs available hain. Lekin, upar wali structure sabse common hai, aur hum is tutorial mein isko detail mein dekhenge.

CSS Header

Header usually website ke top pe hota hai, aur aksar isme logo ya website ka naam hota hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

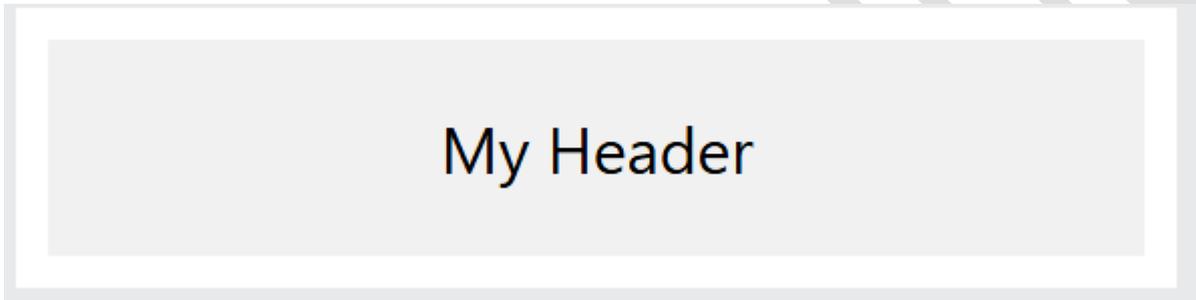
- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
header {  
  background-color: #f1f1f1;  
  text-align: center;  
  padding: 10px;  
}
```

Result



CSS Navigation Bar

Ek navigation bar links ka ek list hota hai jo visitors ko aapki website pe navigate karne mein madad karta hai.

Example

```
/* Style the topnav */  
ul.topnav {  
  display: flex;  
  list-style-type: none;  
  margin: 0;  
  padding: 0;  
  background-color: #333333;  
}  
  
/* Style links in topnav */  
ul.topnav li a {  
  display: block;  
  color: #f1f1f1;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
padding: 14px 16px;  
text-decoration: none;
```

```
}
```

```
/* Change color on hover */  
ul.topnav li a:hover {  
  background-color: #dddddd;  
  color: black;  
}
```

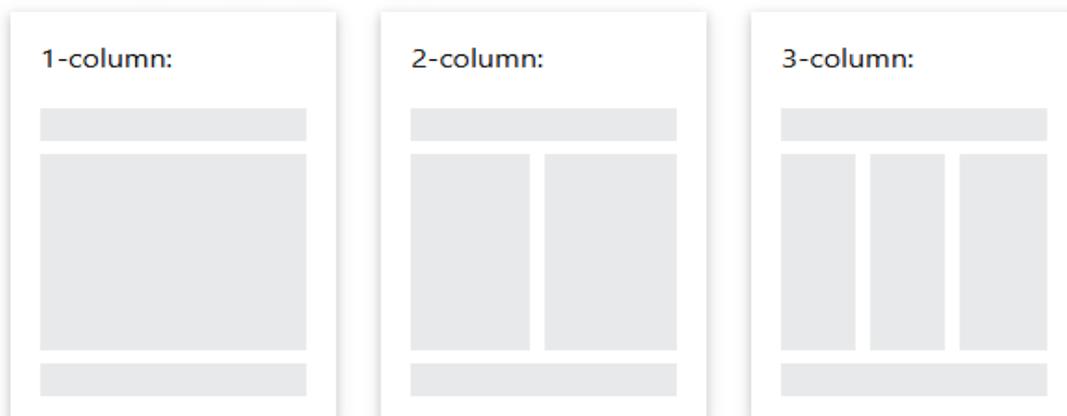
Result



CSS Layout Content

Website ka content kaise dikhai dena chahiye, yeh aksar user ke device pe depend karta hai. Sabse common layouts hain:

- **1-column layout** (usually mobile browsers ke liye)
- **2-columns layout** (tablets aur laptops ke liye)
- **3-columns layout** (sirf desktops ke liye)



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yahan hum ek **3-column layout** banayenge, aur jab screen ka width 600px se kam ho, tab isko 1-column layout mein convert karenge:

Example

```
div.flex-container {
  display: flex;
  /* Show the flex items horizontally */
  flex-direction: row;
}

div.flex-container > div {
  margin: 10px;
}

/* Use media query and show the flex items vertically if screen width is
less than 600px */
@media screen and (max-width:600px) {
  div.flex-container {
    flex-direction: column;
  }
}
```

Result

- Column
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique.
- Column
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique.
- Column
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas sit amet pretium urna. Vivamus venenatis velit nec neque ultricies, eget elementum magna tristique.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Tip: CSS @media rule ke baare mein zyada seekhne ke liye humare CSS Media Queries chapter ko dekhein.

Tip: CSS Flexbox ke baare mein zyada seekhne ke liye humare CSS Flexbox chapter ko dekhein.

CSS Basic and Fixed Footer

Footer webpage ke neeche hota hai. Yeh aksar copyright aur contact information jaisi cheezein contain karta hai.

Niche diye gaye example mein basic footer styling dikhayi gayi hai:

Example

```
footer {  
  background-color: #f1f1f1;  
  text-align: center;  
  padding: 8px;  
}
```

Result



Niche diye gaye example mein ek **fixed footer** dikhaya gaya hai jo page ke bottom pe hamesha visible rahega, chahe page scroll ho ya na ho:

Example

```
footer {  
  position: fixed;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

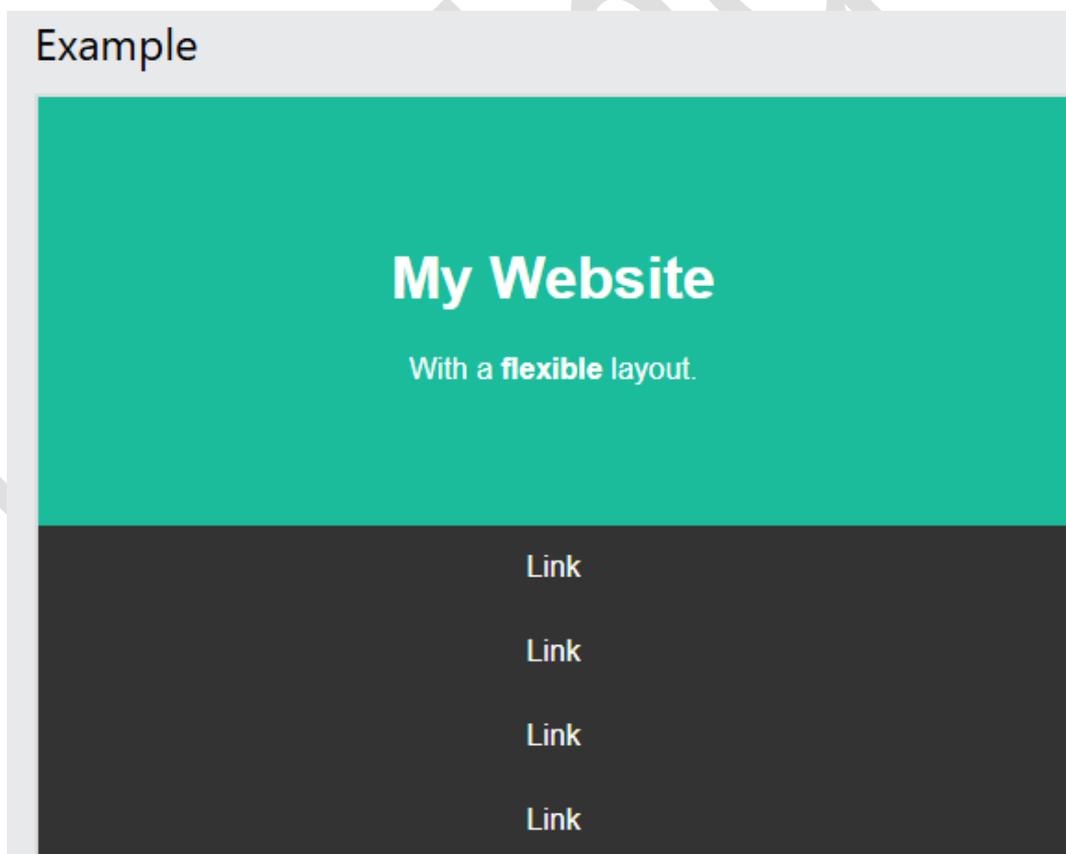
Website: <https://learninghubshahabad.in>

```
bottom: 0;  
left: 0;  
width: 100%;  
background-color: #f1f1f1;  
padding: 8px;  
text-align: center;  
z-index: 1000;  
}
```

CSS Responsive Website

Is example mein, hum media queries aur flexbox ka use karke ek responsive website banayenge, jo flexible navigation bar aur content ko contain karegi.

Example



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

About Me

Photo of me:

Image

Some text about me in culpa qui officia deserunt mollit anim..

More Text

Lorem ipsum dolor sit ame.

Image

Image

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Advanced

CSS Rounded Corners

CSS `border-radius` property ka use elements ke corners ko rounded banane ke liye kiya jata hai.

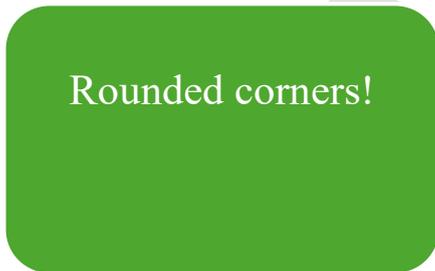
CSS `border-radius` Property

`border-radius` property element ke corners ka radius define karti hai.

Yeh property un elements pe apply ki ja sakti hai jinke paas background-color, border, ya background-image ho.

Yahan kuch examples diye gaye hain:

1. **Rounded corners for an element with a background color:**



2. **Rounded corners for an element with a border:**

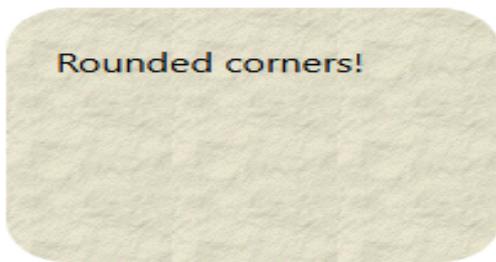


LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

3. Rounded corners for an element with a background image:



Yahan hai code ka example:

Example

```
#div1 {
  border-radius: 25px;
  background-color: #73AD21;
  padding: 20px;
  width: 200px;
  height: 150px;
}

#div2 {
  border-radius: 25px;
  border: 2px solid #73AD21;
  padding: 20px;
  width: 200px;
  height: 150px;
}

#div3 {
  border-radius: 25px;
  background-image: url(paper.gif);
  background-position: left top;
  background-repeat: repeat;
  padding: 20px;
  width: 200px;
  height: 150px;
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Border Images

CSS Border Images

CSS `border-image` property ka use karke aap ek image ko define kar sakte hain jo ek element ke around border ke roop mein use hogi.

CSS `border-image` Property

`border-image` property aapko ek image define karne ki suvidha deti hai jo ek element ke border ke roop mein use hoti hai, normal border ke bajaye.

Yeh property ek image ko nine sections mein slice karti hai, jaise ek tic-tac-toe board. Phir corners ko corners pe place kiya jata hai, aur middle sections ko repeat ya stretch kiya jata hai jaise aap specify karte hain.

`border-image` property ek shorthand property hai jo following properties ko include karti hai:

- **`border-image-source`** - image ka path define karta hai
- **`border-image-slice`** - image ko kaise slice kiya jayega, yeh define karta hai
- **`border-image-width`** - image ki width define karta hai
- **`border-image-outset`** - yeh define karta hai ki border image area border box ke bahar kitna extend karega
- **`border-image-repeat`** - yeh define karta hai ki image ko kaise repeat kiya jayega

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Note: `border-image` kaam karne ke liye, element ke paas border property bhi set honi chahiye!

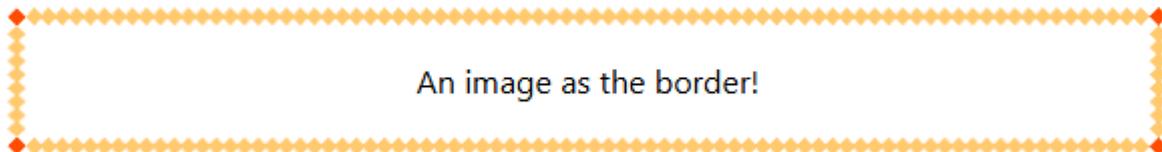
CSS border-image Examples

Hum niche diye gaye image (`border.png`) ka use karenge:



Border

Niche diye gaye example mein, `url(border.png)` image ka source specify karta hai, number 30 image ko har edge se 30 pixels slice karta hai, aur `round` value specify karti hai ki image ke middle section ko area fill karne ke liye tiled (repeated) kiya jayega (aur agar zarurat ho toh fit hone ke liye rescale bhi kiya jayega):



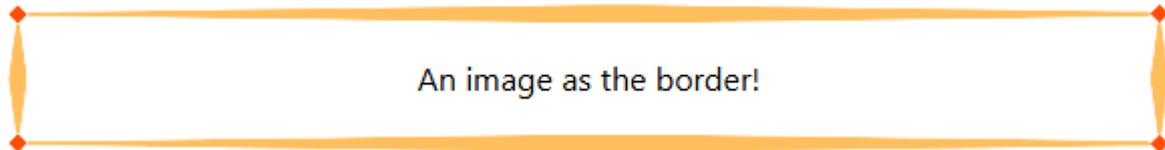
Example

```
#borderimg {  
  border: 10px solid transparent; /* Required for border-image */  
  padding: 15px;  
  border-image: url(border.png) 30 round;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yahan, `stretch` value specify karti hai ki image ka middle section area ko fill karne ke liye stretched hoga:



Example

```
#borderimg {  
  border: 10px solid transparent; /* Required for border-  
image */  
  padding: 15px;  
  border-image: url(border.png) 30 stretch;  
}
```

CSS border-image - Different Slice Values

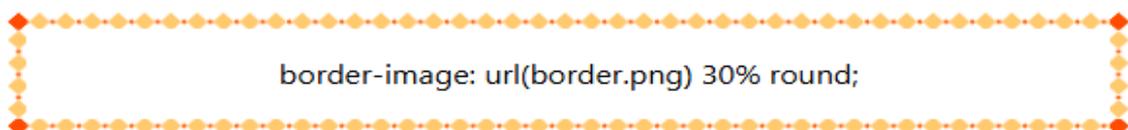
Different slice values border image ka look completely change kar deti hain:



Example 2:



Example 3:



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yeh hai code:

Example

```
#borderimg1 {  
  border: 10px solid transparent;  
  padding: 15px;  
  border-image: url(border.png) 50 round;  
}  
  
#borderimg2 {  
  border: 10px solid transparent;  
  padding: 15px;  
  border-image: url(border.png) 20% round;  
}  
  
#borderimg3 {  
  border: 10px solid transparent;  
  padding: 15px;  
  border-image: url(border.png) 30% round;  
}
```

CSS Multiple Backgrounds

CSS Multiple Backgrounds

CSS आपको एक element के liye multiple background images add karne ki suvidha deta hai, jo `background-image` property के through kiya jata hai.

Alag-alag background images ko commas से separate kiya jata hai, aur yeh images ek doosre के upar stacked hoti hain, jahan pe pehli image viewer के sabse kareeb hoti hai.

Niche wale example mein do background images hain, pehli image ek phool hai (jo right-bottom pe aligned hai) aur dusri image ek paper jaisi background hai (jo top-left corner pe aligned hai):

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

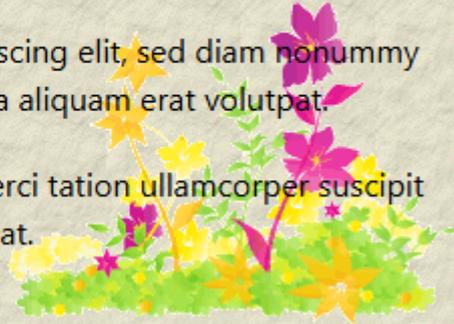
- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Lorem Ipsum Dolor

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.



Example

```
#example1 {  
  background-image: url(img_flwr.gif), url(paper.gif);  
  background-position: right bottom, left top;  
  background-repeat: no-repeat, repeat;  
}
```

Multiple background images ko individual background properties (jaise upar) ya background shorthand property ke saath specify kiya ja sakta hai.

Niche wale example mein `background` shorthand property ka use kiya gaya hai (jo same result dega jaise pehle example mein):

Example

```
#example1 {  
  background: url(img_flwr.gif) right bottom no-repeat,  
  url(paper.gif) left top repeat;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Background Size

The CSS `background-size` Property

`background-size` property ka use aapko background images ka size specify karne ke liye kiya jata hai.

Background size ko aap lengths, percentages, ya phir keywords `auto`, `contain`, ya `cover` ka use karke specify kar sakte hain.

Niche diya gaya example ek background image ko original image se kaafi chhota resize karta hai (pixels ka use karke):

Lorem Ipsum Dolor

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

Example

Background size ko pixels mein set karte hue:

```
#div1 {  
  background-image: url(img_flower.jpg);  
  background-position: right top;  
  background-repeat: no-repeat;  
  background-size: 100px 80px;  
}
```

`background-size` - `auto`, `contain` aur `cover`

`background-size` ke liye keyword values hain: `auto`, `contain`, aur `cover`.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- **auto** value default hoti hai, aur background image ko uske original size mein dikhata hai.
- **contain** value image ko scale kar deti hai taaki wo content area ke andar fit ho jaye.
- **cover** value image ko scale kar deti hai taaki content area ko पूरी तरह से cover kar sake (image ka width aur height content area ke barabar ya zyada hote hain).

Example

contain, cover, aur auto ke saath background size set karte hue:

```
#div1 {  
  border: 1px solid black;  
  background-image: url(img_flwr.gif);  
  background-repeat: no-repeat;  
  background-size: contain;  
}  
  
#div2 {  
  border: 1px solid black;  
  background-image: url(img_flwr.gif);  
  background-repeat: no-repeat;  
  background-size: cover;  
}  
  
#div3 {  
  border: 1px solid black;  
  background-image: url(img_flwr.gif);  
  background-repeat: no-repeat;  
  background-size: auto;  
}
```

Define Sizes of Multiple Background Images

Jab multiple backgrounds ka use ho, tab `background-size` property multiple values bhi accept karti hai (comma-separated list ka use karke).

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Niche diya gaya example mein teen background images specify kiye gaye hain, aur har image ka background-size alag diya gaya hai:

Example

```
html {  
  background: url(img_man.jpg) no-repeat center fixed;  
  background-size: cover;  
}
```

CSS Full Size Background Image

Agar aap chaahte hain ki ek background image hamesha poore browser window ko cover kare, toh aap is tarah define kar sakte hain:

Requirements:

- Image ko poori page par fill kare (no white space)
- Image ko scale kare jaise zarurat ho
- Image ko page par center kare
- Scrollbars na aaye

Yahan, hum styles `<html>` element mein define karte hain (jo hamesha kam se kam browser window ki height ka hota hai). Phir hum us par ek fixed aur centered background set karte hain, aur background-size property se uska size adjust karte hain:

Example

```
html {  
  background: url(img_man.jpg) no-repeat center fixed;  
  background-size: cover;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Hero Image

Aap ek hero image (jo ek badi image hoti hai uske upar text hota hai) bhi create kar sakte hain ek `<div>` par alag background properties ka use karke, aur usko apni desired position par place kar sakte hain.

Example

```
.hero-image {  
  background: url(img_man.jpg) no-repeat center;  
  background-size: cover;  
  height: 500px;  
  position: relative;  
}
```

CSS Advanced Background Properties

Property	Description
background	Ek shorthand property hai jo saare background properties ko ek hi declaration mein set karta hai.
background-clip	Specifies the painting area of the background.
background-image	Specifies ek ya zyada background images for an element.
background-origin	Specifies jahan background image(s) ko position kiya jayega.
background-size	Specifies background image(s) ka size.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Background Origin

CSS background-origin Property

CSS background-origin property specify karti hai ki background image kaha position ki jayegi.

Is property ke liye kuch possible values hoti hain:

- **padding-box** - Background image padding edge ke top-left corner se start hoti hai. Yeh default value hoti hai.
- **border-box** - Background image border edge ke top-left corner se start hoti hai.
- **content-box** - Background image content edge ke top-left corner se start hoti hai.

Note: Agar background-attachment property ko "fixed" set kiya gaya ho, toh yeh property koi effect nahi karti.

Niche diya gaya example background-origin property ko illustrate karta hai:

Example

```
#div1 {  
  border: 2px solid black;  
  padding: 35px;  
  background-image: url(img_flwr.gif);  
  background-repeat: no-repeat;  
  background-origin: padding-box;  
}
```

```
#div2 {  
  border: 2px solid black;  
  padding: 35px;  
  background-image: url(img_flwr.gif);  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
background-repeat: no-repeat;  
background-origin: border-box;  
}
```

```
#div3 {  
border: 2px solid black;  
padding: 35px;  
background-image: url(img_flwr.gif);  
background-repeat: no-repeat;  
background-origin: content-box;  
}
```

CSS Background Clip

CSS background-clip Property

CSS background-clip property define karti hai ki background (color, image, ya gradient) element ke andar kitni doori tak extend hoga.

Is property ke liye kuch possible values hoti hain:

- **border-box** - Background border ke peeche tak extend hota hai. Yeh default value hoti hai.
- **padding-box** - Background border ke andar ke padding edge tak extend hota hai.
- **content-box** - Background sirf content box ke edge tak extend hota hai.

Example

background-clip property ko background image ke saath use karte hue:

```
#div1 {  
border: 5px dotted black;  
padding: 35px;  
background-image: url(paper.gif);  
background-clip: border-box;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
#div2 {  
  border: 5px dotted black;  
  padding: 35px;  
  background-image: url(paper.gif);  
  background-clip: padding-box;  
}
```

```
#div3 {  
  border: 5px dotted black;  
  padding: 35px;  
  background-image: url(paper.gif);  
  background-clip: content-box;  
}
```

Example

background-clip property ko background color ke saath use karte hue:

```
#div1 {  
  border: 5px dotted black;  
  padding: 35px;  
  background-color: lightblue;  
  background-clip: border-box;  
}
```

```
#div2 {  
  border: 5px dotted black;  
  padding: 35px;  
  background-color: lightblue;  
  background-clip: padding-box;  
}
```

```
#div3 {  
  border: 5px dotted black;  
  padding: 35px;  
  background-color: lightblue;  
  background-clip: content-box;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Colors

CSS mein 140+ color names, HEX values, RGB values, RGBA values, HSL values, HSLA values, aur opacity support hoti hain.

RGBA Colors

RGBA color values, RGB colors ka ek extension hain jisme alpha channel hota hai - jo color ke opacity ko specify karta hai.

RGBA color value ko is tarah se specify kiya jata hai:

rgba (red, green, blue, alpha)

Yahan `alpha` parameter 0.0 (fully transparent) se 1.0 (fully opaque) ke beech ka number hota hai.

Examples:

```
rgba(255, 0, 0, 0.2);
```

```
rgba(255, 0, 0, 0.4);
```

```
rgba(255, 0, 0, 0.6);
```

```
rgba(255, 0, 0, 0.8);
```

Example ke liye:

```
#p1 {background-color: rgba(255, 0, 0, 0.3);} /* red with  
opacity */  
#p2 {background-color: rgba(0, 255, 0, 0.3);} /* green with  
opacity */
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
#p3 {background-color: rgba(0, 0, 255, 0.3);} /* blue with opacity */
```

HSLA Colors

HSLA color values, HSL colors ka ek extension hain jisme alpha channel hota hai - jo color ke opacity ko specify karta hai.

HSLA color value ko is tarah se specify kiya jata hai:

```
hsla(hue, saturation, lightness, alpha)
```

Yahan `alpha` parameter bhi 0.0 (fully transparent) se 1.0 (fully opaque) ke beech ka number hota hai.

Examples:

```
hsla(0, 100%, 30%, 0.3);
```

```
hsla(0, 100%, 50%, 0.3);
```

```
hsla(0, 100%, 70%, 0.3);
```

```
hsla(0, 100%, 90%, 0.3);
```

Example ke liye:

```
#p1 {background-color: hsla(120, 100%, 50%, 0.3);} /* green with opacity */
```

```
#p2 {background-color: hsla(120, 100%, 75%, 0.3);} /* light green with opacity */
```

```
#p3 {background-color: hsla(120, 100%, 25%, 0.3);} /* dark green with opacity */
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
#p4 {background-color: hsla(120, 60%, 70%, 0.3);} /* pastel green with opacity */
```

CSS opacity Property

Opacity property se aap poore element ki opacity set kar sakte hain (background color aur text dono hi opaque ya transparent ho jayenge).

Opacity property ka value 0.0 (fully transparent) se 1.0 (fully opaque) ke beech hota hai.

Example:



Yeh dekhein kaise opacity ke saath elements dikhte hain:

```
#p1 {background-color:rgb(255,0,0);opacity:0.6;} /* red with opacity */  
#p2 {background-color:rgb(0,255,0);opacity:0.6;} /* green with opacity */  
#p3 {background-color:rgb(0,0,255);opacity:0.6;} /* blue with opacity */
```

Yahan dhyaan rahe ki jab aap opacity use karte hain, to element ke andar ka text bhi transparent ya opaque ho jata hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Color Keywords

CSS mein kuch special predefined color keywords hote hain jo color, background-color aur border-color jaise properties ke saath use kiye ja sakte hain.

Special keywords hain:

- transparent
- currentcolor
- inherit

The transparent Keyword

transparent keyword kisi color ko transparent banane ke liye use hota hai. Yeh aksar kisi element ke background color ko transparent karne ke liye use kiya jata hai.

Example

Yahaan, `<div>` element ka background color fully transparent hoga, aur background image dikhai degi:

```
body {  
  background-image: url("paper.gif");  
}  
  
div {  
  background-color: transparent;  
}
```

Note: transparent keyword `rgba(0,0,0,0)` ke barabar hota hai. **RGBA** color values, **RGB** color values ka extension hoti hain jisme alpha channel hota hai — jo kisi color ki opacity specify karta hai. Aur padhiye hamare **CSS RGB** chapter aur **CSS Colors** chapter mein.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The currentcolor Keyword

currentcolor keyword ek variable ki tarah kaam karta hai jo element ke color property ki current value ko hold karta hai.

Yeh keyword tab useful hai jab aap kisi specific color ko ek element ya poori page mein consistent rakhna chahte ho.

Example

Is example mein `<div>` element ka border color blue hoga, kyunki `<div>` ka text color blue hai:

```
div {  
  color: blue;  
  border: 10px solid currentcolor;  
}
```

Example

Is example mein `<div>` ka background color, body element ke current color value se set hoga:

```
body {  
  color: purple;  
}  
  
div {  
  background-color: currentcolor;  
}
```

Example

Is example mein `<div>` ka border color aur shadow color, body element ke current color value se set hoga:

```
body {  
  color: green;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
div {  
  box-shadow: 0px 0px 15px currentcolor;  
  border: 5px solid currentcolor;  
}
```

The inherit Keyword

inherit keyword yeh specify karta hai ki koi property apne parent element se apni value inherit kare.

inherit keyword kisi bhi CSS property ke liye use ho sakta hai, aur kisi bhi HTML element par apply ho sakta hai.

Example

Is example mein `` ke border settings parent element se inherit honge:

```
div {  
  border: 2px solid red;  
}  
  
span {  
  border: inherit;  
}
```

CSS Gradients

CSS Gradients

CSS gradient functions आपको एक element के अंदर दो या दो से ज्यादा colors के बीच smooth transitions display करने देती हैं।

CSS तीन types के gradients define करता है:

- **Linear Gradients** - Color transition नीचे, ऊपर, left, right, या diagonally जाता है

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- **Radial Gradients** - Color transition ek central point se bahar ki taraf jaata hai
- **Conic Gradients** - Color transition center point ke around rotate hota hai

CSS gradient functions **background-image** property ke andar use hote hain.



CSS linear-gradient() Function

CSS linear-gradient() function ek linear gradient create karta hai.

Linear gradient ek color transition define karta hai jo ek straight line mein hota hai; yeh neeche, upar, left, right, ya diagonally ja sakta hai.

Linear gradient ke liye kam se kam do color stops chahiye hote hain. Color stops wo colors hote hain jinmein aap smooth transitions dikhana chahte ho. Aap ek starting point aur direction (ya angle) bhi set kar sakte ho gradient effect ke saath.

Syntax

```
background-image: linear-gradient(direction, color-stop1, color-stop2, ...);
```

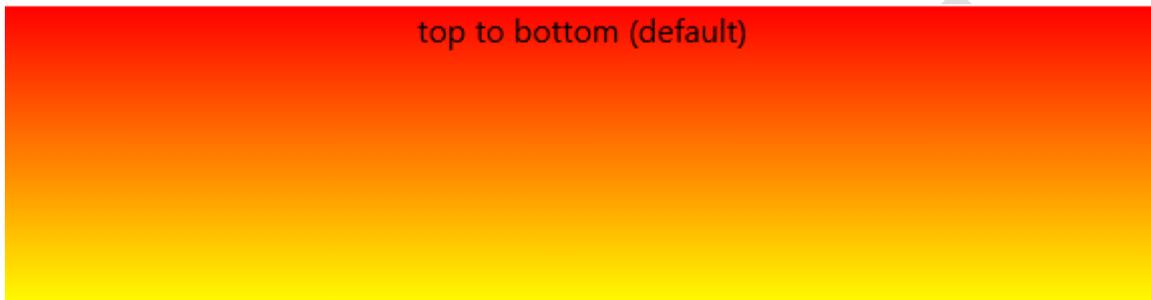
LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Direction - Top to Bottom (this is default)

Neeche diya example ek linear gradient dikhata hai jo top se bottom jaata hai. Yeh red se start hokar yellow mein transition hota hai:

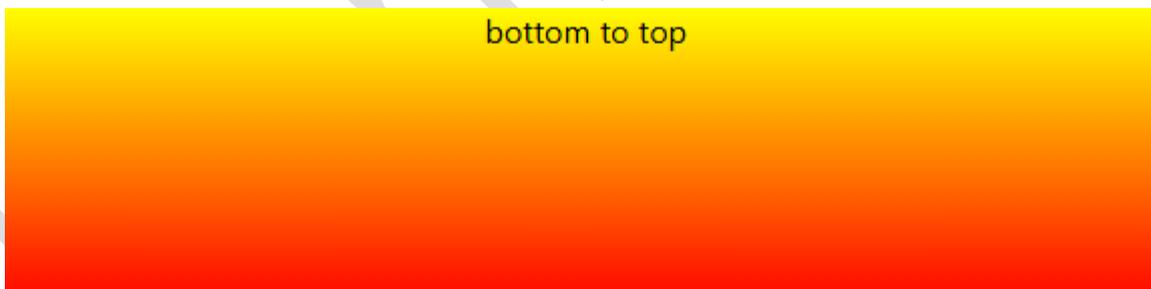


Example

```
#grad {  
  background-image: linear-gradient(to bottom, red, yellow);  
}
```

Direction - Bottom to Top

Is example mein gradient bottom se top jaata hai. Red se start hota hai, yellow mein transition hota hai:



Example

```
#grad {  
  background-image: linear-gradient(to top, red, yellow);  
}
```

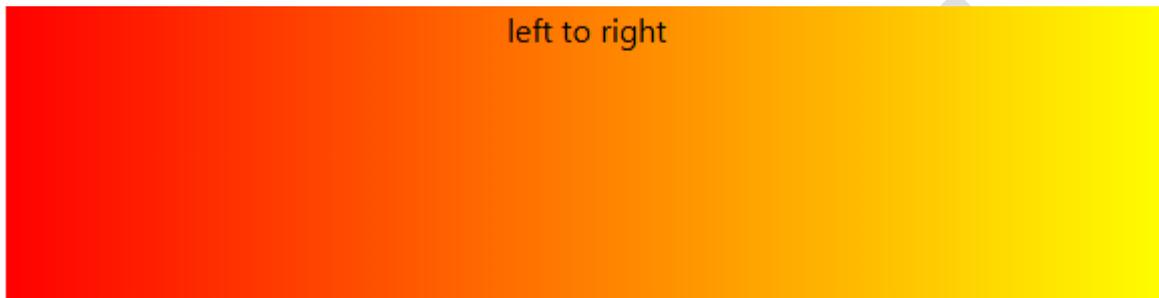
LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Direction - Left to Right

Is example mein gradient left se right jaata hai. Red se start hota hai, yellow mein transition hota hai:



Example

```
#grad {  
  background-image: linear-gradient(to right, red , yellow);  
}
```

Direction - Diagonal

Is example mein gradient top-left se bottom-right jaata hai. Red se start hota hai, yellow mein transition hota hai:



Example

```
#grad {  
  background-image: linear-gradient(to bottom right, red, yellow);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Linear Gradient - Using Angles

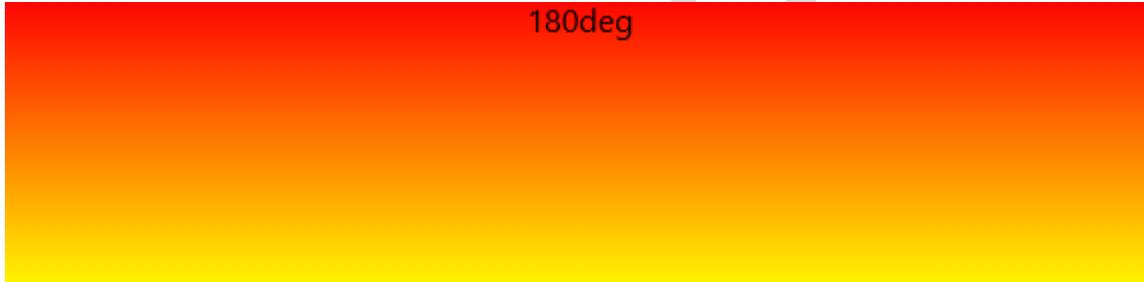
Agar aap gradient ki direction par aur control chahte ho toh aap predefined directions ke bajay angle parameter use kar sakte ho.

- **0deg** = "to top"
- **90deg** = "to right"
- **180deg** = "to bottom"
- **270deg** = "to left"

Syntax

```
background-image: linear-gradient(angle, color-stop1, color-stop2) ;
```

Neeche example angles ka use dikhata hai:



Example

```
#grad {  
  background-image: linear-gradient(180deg, red, yellow);  
}
```

Linear Gradient - Multiple Color Stops

Niche example ek linear gradient (top to bottom) multiple color stops ke saath dikhata hai:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
#grad {  
  background-image: linear-gradient(red, yellow, green);  
}
```

Niche example left se right gradient dikhata hai jisme rainbow colors aur kuch text hai:



Example

```
#grad {  
  background-image: linear-gradient(to right,  
  red,orange,yellow,green,blue,indigo,violet);  
}
```

Linear Gradient - Transparency

CSS gradients transparency ko bhi support karte hain, jisse fading effects create kiye ja sakte hain.

Transparency add karne ke liye hum **rgba()** function use karte hain. rgba() ka last parameter **0 se 1** ke beech hota hai:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
 - English Language Courses
 - Brand Marketing & Custom Software Solution
 - Academic Tuition(All Subjects)
- Website: <https://learninghubshahabad.in>
- **0 = fully transparent**
 - **1 = full color (no transparency)**

Neeche example left se right gradient dikhata hai. Yeh fully transparent se start hota hai, phir full red color tak transition hota hai:

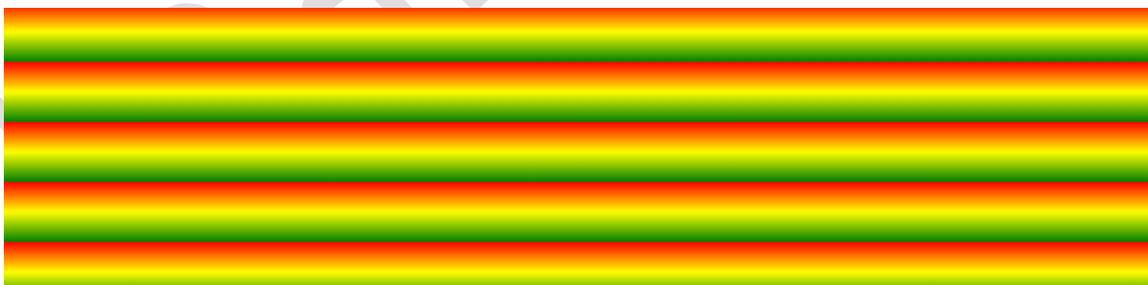


Example

```
#grad {  
  background-image: linear-gradient(to right, rgba(255,0,0,0),  
  rgba(255,0,0,1));  
}
```

CSS repeating-linear-gradient() Function

CSS repeating-linear-gradient() function repeated linear gradients banane ke liye use hota hai:



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

A repeating linear gradient:

```
#grad {  
  background-image: repeating-linear-gradient(red, yellow  
10%, green 20%);  
}
```

CSS Radial Gradients

CSS radial-gradient() Function

CSS **radial-gradient()** function ek radial gradient create karta hai.

Radial gradient ek color transition define karta hai jo central point se bahar ki taraf jaata hai.

Radial gradient ko kam se kam do color stops ki zarurat hoti hai. Color stops wo colors hoti hain jinke beech smooth transitions chahiye.

Syntax

```
background-image: radial-gradient(shape size at position, start-  
color, ..., last-color);
```

By default, **shape** ellipse hota hai, **size** farthest-corner hota hai, aur **position** center hota hai.

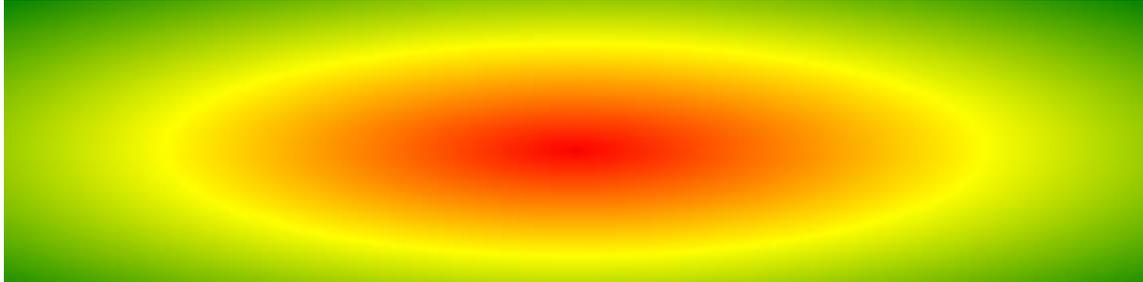
Radial Gradient - Evenly Spaced Color Stops (this is default)

Neeche diya example ek radial gradient dikhata hai jisme evenly spaced color stops hain:

LEARNING HUB
SHAHABAD MARKANDA
📞CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

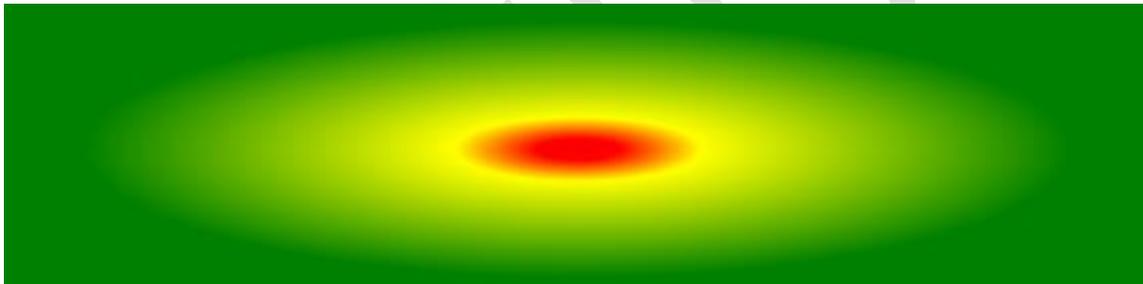


Example

```
#grad {  
  background-image: radial-gradient(red, yellow, green);  
}
```

Radial Gradient - Differently Spaced Color Stops

Is example mein radial gradient hai jisme color stops differently spaced hain:



Example

```
#grad {  
  background-image: radial-gradient(red 5%, yellow 15%, green  
60%);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

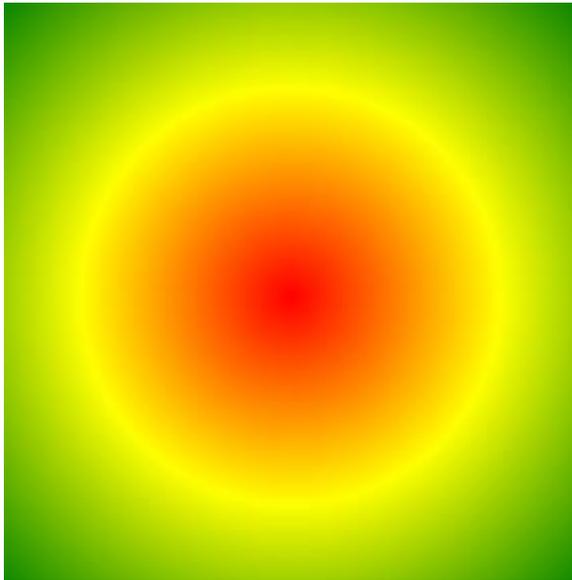
Website: <https://learninghubshahabad.in>

Radial Gradient - Set Shape

Shape parameter gradient ke shape ko define karta hai. Yeh ek values mein se koi bhi le sakta hai:

- **ellipse** (default)
- **circle**

Neeche example ek radial gradient dikhata hai jisme shape circle hai:



Example

```
#grad {  
  background-image: radial-gradient(circle, red, yellow, green);  
}
```

Radial Gradient - The size Parameter

Size parameter gradient ke ending shape ka size define karta hai. Yeh ek values mein se koi bhi le sakta hai:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

- **closest-side**
- **farthest-side**
- **closest-corner**
- **farthest-corner** (default)

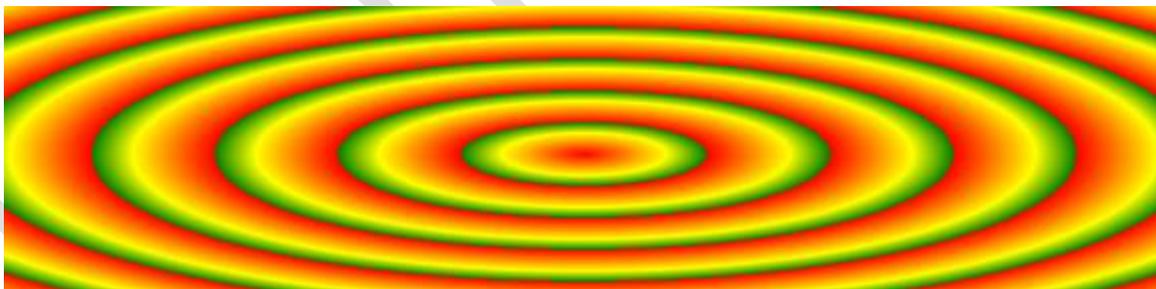
Example

Alag size keywords ke saath ek radial gradient:

```
#grad1 {  
  background-image: radial-gradient(closest-side at 70% 60%, red,  
  yellow, black);  
}  
  
#grad2 {  
  background-image: radial-gradient(farthest-side at 70% 60%, red,  
  yellow, black);  
}
```

CSS repeating-radial-gradient() Function

CSS **repeating-radial-gradient()** function ka use radial gradients ko repeat karne ke liye hota hai:



Example

Ek repeating radial gradient:

```
#grad {  
  background-image: repeating-radial-gradient(red, yellow
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

10%, green 15%);
}

CSS Conic Gradients

CSS conic-gradient() Function

CSS **conic-gradient()** function ek conic gradient create karta hai.

Conic gradient ek aisa gradient hota hai jisme color transitions center point ke around rotate hote hain.

Conic gradient banane ke liye aapko kam se kam do colors define karne padte hain.

Syntax

```
background-image: conic-gradient([from angle] [at position,] color [degree], color [degree], ...);
```

By default, **angle** 0deg hota hai aur **position** center hota hai.

Agar degree specify nahi kiya jata, toh colors center point ke around barabar distribute ho jaate hain.

Conic Gradient: Three Colors

Niche diya example ek conic gradient dikhata hai jisme teen colors hain:

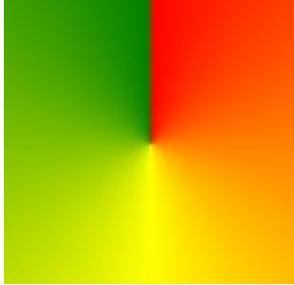
Example

Ek conic gradient jisme teen colors hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



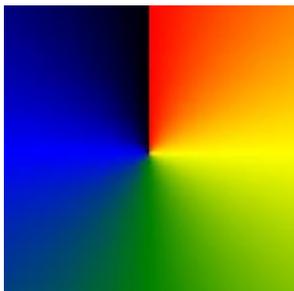
```
#grad {  
  background-image: conic-gradient(red, yellow, green);  
}
```

Conic Gradient: Five Colors

Is example mein ek conic gradient dikhaya gaya hai jisme paanch colors hain:

Example

Ek conic gradient jisme paanch colors hain:



```
#grad {  
  background-image: conic-gradient(red, yellow, green, blue,  
  black);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

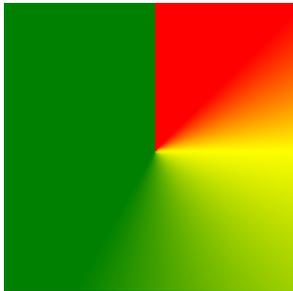
Website: <https://learninghubshahabad.in>

Conic Gradient: Three Colors and Degrees

Is example mein ek conic gradient dikhaya gaya hai jisme teen colors hain aur har color ke liye degree specify ki gayi hai:

Example

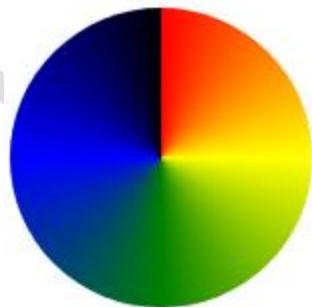
Ek conic gradient jisme teen colors aur unke liye degrees diye gaye hain:



```
#grad {  
  background-image: conic-gradient(red 45deg, yellow 90deg, green  
210deg);  
}
```

Create Pie Charts

Agar aap chahte hain ki conic gradient ek pie chart jaisa dikhe, toh bas **border-radius: 50%** add kar lijiye:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

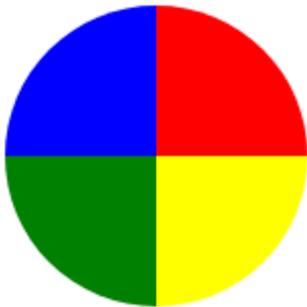
Website: <https://learninghubshahabad.in>

Example

```
#grad {  
  background-image: conic-gradient(red, yellow, green, blue,  
  black);  
  border-radius: 50%;  
}
```

Yeh ek aur pie chart hai jisme saare colors ke liye defined degrees hain:

Example



```
#grad {  
  background-image: conic-gradient(red 0deg, red 90deg, yellow 90deg,  
  yellow 180deg, green 180deg, green 270deg, blue 270deg);  
  border-radius: 50%;  
}
```

Conic Gradient With Specified From Angle

[from angle] ek angle specify karta hai jisse pura conic gradient rotate hota hai.

Niche diya example ek conic gradient dikhata hai jisme from angle **90deg** hai:

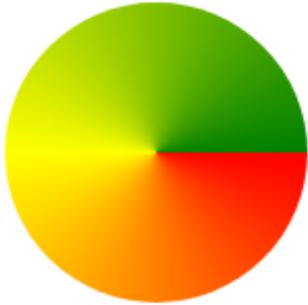
LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

Ek conic gradient with a from angle:



```
#grad {  
  background-image: conic-gradient(from 90deg, red, yellow,  
  green);  
}
```

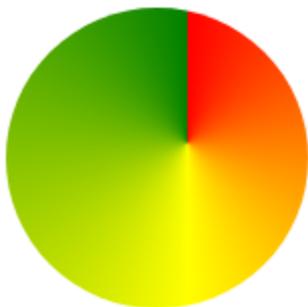
Conic Gradient With Specified Center Position

[at position] conic gradient ka center specify karta hai.

Niche diya example ek conic gradient dikhata hai jisme center position **60% 45%** hai:

Example

Ek conic gradient with a specified center position:



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

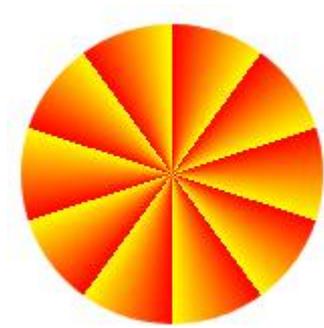
```
#grad {  
  background-image: conic-gradient(at 60% 45%, red, yellow,  
  green);  
}
```

CSS repeating-conic-gradient() Function

CSS **repeating-conic-gradient()** function ka use conic gradients ko repeat karne ke liye hota hai:

Example

Ek repeating conic gradient:



```
#grad {  
  background-image: repeating-conic-gradient(red 10%, yellow 20%);  
  border-radius: 50%;  
}
```

Yeh ek repeating conic gradient hai jisme defined color-starts aur color-stops hain:

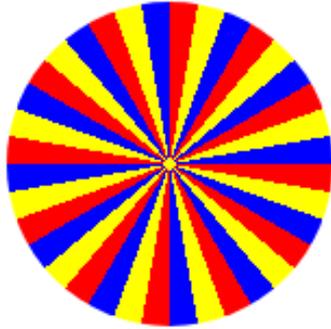
Example

Ek repeating conic gradient with defined color-starts aur color-stops:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



```
#grad {  
  background-image: repeating-conic-gradient(red 0deg 10deg,  
  yellow 10deg 20deg, blue 20deg 30deg);  
  border-radius: 50%;
```

CSS Shadow Effects



Shadows

With CSS you can
create shadow
effects!

Hover over me!

CSS Text Shadow

CSS text-shadow property text par shadow apply karta hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Iske simplest use mein, aap sirf horizontal aur vertical shadow specify karte ho.

Iske alawa, aap shadow ka color aur blur effect bhi add kar sakte ho.

Text shadow effect!

Example

Horizontal aur vertical shadow:

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

Next, add a color to the shadow:

Text shadow effect!

Example

Horizontal aur vertical shadow, with color:

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

Then, add a blur effect to the shadow:

Text shadow effect!

Example

Horizontal aur vertical shadow, with color aur blur effect:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
h1 {  
  text-shadow: 2px 2px 5px red;  
}
```

The following example shows a white text with black shadow:

Text shadow effect!

Example

Text-shadow on a white text:

```
h1 {  
  color: white;  
  text-shadow: 2px 2px 4px #000000;  
}
```

The following example shows a red neon glow shadow:

Text shadow effect!

Example

Text-shadow with red neon glow:

```
h1 {  
  text-shadow: 0 0 3px #ff0000;  
}
```

Multiple Shadows

Agar aap text pe zyada shadows add karna chahte ho, toh aap comma-separated list of shadows use kar sakte ho.

LEARNING HUB
SHAHABAD MARKANDA
📞CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The following example shows a red and blue neon glow shadow:

Text shadow effect!

Example

```
h1 {  
  text-shadow: 0 0 3px #ff0000, 0 0 5px #0000ff;  
}
```

The following example shows a white text with black, blue, and darkblue shadow:

Text shadow effect!

Example

```
h1 {  
  color: white;  
  text-shadow: 1px 1px 2px black, 0 0 25px blue, 0 0 5px darkblue;  
}
```

You can also use the text-shadow property to create a plain border around some text (without shadows):

Border around text!

Example

```
h1 {  
  color: coral;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
text-shadow: -1px 0 black, 0 1px black, 1px 0 black, 0 -1px  
black;  
}
```

CSS Box Shadow

CSS box-shadow property ka use ek ya zyada shadows apply karne ke liye kiya jata hai ek element par.

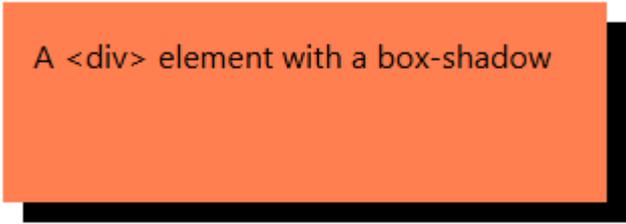
Iske simplest use mein, aap sirf horizontal aur vertical offset specify kar sakte hain shadow ke liye.

Iske alawa, aap shadow ka color, spread radius, blur effect add kar sakte hain, aur shadow ko outer shadow se inner shadow (inset) mein bhi badal sakte hain.

CSS Horizontal aur Vertical Shadow

Iske simplest use mein, aap sirf horizontal aur vertical offset specify karte hain shadow ke liye.

Shadow ka default color current text color hota hai.



A <div> element with a box-shadow

Example

Horizontal aur vertical shadow specify karna:

```
div {  
  box-shadow: 10px 10px;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Specify a Color for the Shadow

Color parameter shadow ka color define karta hai.

A <div> element with a lightblue box-shadow

Example

Shadow ka color specify karna:

```
div {  
  box-shadow: 10px 10px lightblue;  
}
```

Add a Blur Effect to the Shadow

Blur parameter shadow ke blur radius ko define karta hai. Jitna zyada number hoga, shadow utna hi blurred hoga.

A <div> element with a 5px blurred, lightblue box-shadow

Example

Shadow mein blur effect add karna:

```
div {  
  box-shadow: 10px 10px 5px lightblue;  
}
```

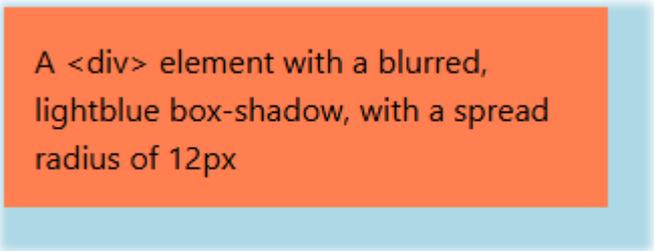
- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Set the Spread Radius of the Shadow

Spread parameter shadow ke spread radius ko define karta hai.

Ek positive value shadow ka size badhata hai, aur negative value size ko kam karta hai.



A <div> element with a blurred, lightblue box-shadow, with a spread radius of 12px

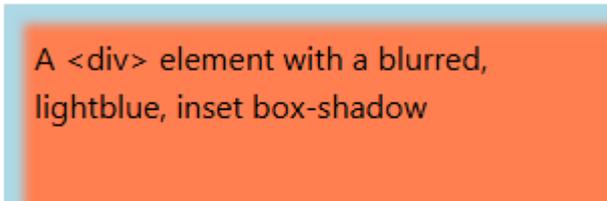
Example

Shadow ka spread radius set karna:

```
div {  
  box-shadow: 10px 10px 5px 12px lightblue;  
}
```

Set the Inset Parameter

Inset parameter shadow ko outer shadow (outset) se inner shadow (element ke frame ke andar) mein change karta hai.



A <div> element with a blurred, lightblue, inset box-shadow

Example

Inset parameter add karna:

```
div {  
  box-shadow: 10px 10px 5px lightblue inset;  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

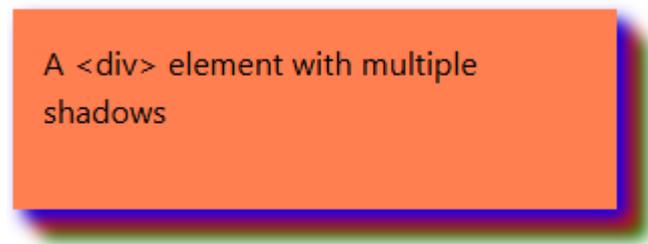
- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Add Multiple Shadows

Ek element mein multiple shadows bhi ho sakte hain.

Ek ya zyada shadows ko element par lagane ke liye, comma-separated list mein shadows add karte hain.

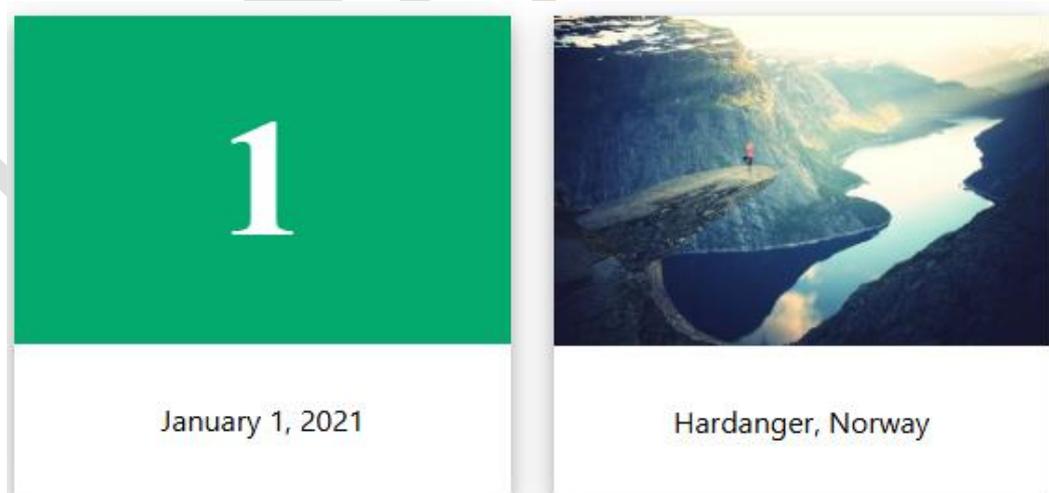


Example

```
div {  
  box-shadow: 5px 5px 8px blue, 10px 10px 8px red, 15px 15px  
  8px green;  
}
```

Creating Shadow Cards

Aap box-shadow property ka use paper jaise cards banane ke liye bhi kar sakte hain:



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
div.card {  
  width: 250px;  
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0  
  rgba(0, 0, 0, 0.19);  
  text-align: center;  
}
```

CSS Text Effects

CSS ke paas kuch properties hoti hain jo text overflow, word wrapping, line breaking rules, aur writing modes ko handle karti hain.

Is chapter mein aap following properties ke baare mein seekhenge:

- **text-overflow** - Specifies how to handle overflowed content
- **word-wrap** - Allows long words to be able to be broken and wrap onto the next line
- **word-break** - Specifies line breaking rules
- **writing-mode** - Specifies whether lines of text are laid out horizontally or vertically

CSS text-overflow Property

CSS text-overflow property specify karti hai ki overflowed content jo display nahi ho raha hai, user ko kaise signal diya jaye. Isse clip kiya ja sakta hai ya ellipsis (...) ke saath render kiya ja sakta hai.

Text-overflow ka effect hone ke liye, yeh dono properties required hoti hain:

- **white-space: nowrap;**
- **overflow: hidden;**

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Here, the overflowed content is clipped:

This is some long text that

Here, the overflowed content is rendered with ellipsis (...):

This is some long text t...

CSS code kuch is tarah hoga:

Example

```
p.test1 {  
  width: 200px;  
  border: 1px solid #000000;  
  white-space: nowrap;  
  overflow: hidden;  
  text-overflow: clip;  
}
```

```
p.test2 {  
  width: 200px;  
  border: 1px solid #000000;  
  white-space: nowrap;  
  overflow: hidden;  
  text-overflow: ellipsis;  
}
```

Niche example dikhata hai ki kaise aap overflowed content ko display kar sakte hain jab aap element par hover karte hain:

Example

```
p:hover {  
  overflow: visible;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS word-wrap Property

CSS word-wrap property lambi words ko agle line par break karke wrap hone ka option deti hai.

Agar koi word itna lamba ho ki area mein fit na ho, to woh bahar nikal jayega:

This paragraph contains a very long word:
thisisaveryveryveryveryveryverylongword.
The long word will break and wrap to the next line.

Word-wrap property आपको text force karne ki suvidha deti hai wrap hone ke liye - chahe isse word ke beech mein break karna pade:

This paragraph contains a very long word:
thisisaveryveryveryveryveryverylongword.
The long word will break and wrap to the next line.

CSS code kuch is tarah hoga:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
p {  
  word-wrap: break-word;  
}
```

CSS word-break Property

CSS word-break property specify karti hai ki jab word ek line ke end tak pahunchne to woh kaise break hoga.

Is property ko in values mein se koi ek lenne ko milta hai:

- **normal** - Default hai. Language ke default line breaking rules ka use hota hai
- **break-all** - Allows words to be broken at any character to prevent overflow
- **keep-all** - Prevents words from breaking

Yahan hum **normal** ka use karte hain:

This paragraph contains some text. This line will break-at-hyphens.

Yahan hum **break-all** ka use karte hain:

This paragraph contains some text. The lines will break at any character.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS code kuch is tarah hoga:

Example

```
p.test1 {  
  word-break: normal;  
}
```

```
p.test2 {  
  word-break: break-all;  
}
```

CSS writing-mode Property

CSS writing-mode property specify karti hai ki text ki lines horizontally ya vertically kaise layout ki jayengi.

Is property ko in values mein se koi ek lena ko milta hai:

- **horizontal-tb** - Default. Text horizontally left se right flow hota hai, vertically top se bottom
- **vertical-rl** - Text vertically top se bottom flow hota hai, horizontally right se left
- **vertical-lr** - Text vertically top se bottom flow hota hai, horizontally left se right

Yeh ek text hai jo span element ke saath **vertical-rl** writing-mode mein hai.

Niche kuch alag writing modes dikhaye gaye hain:

Example

```
p.test1 {  
  writing-mode: horizontal-tb;  
}
```

```
span {
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
writing-mode: vertical-rl;  
}
```

```
p.test2 {  
  writing-mode: vertical-rl;  
}
```

CSS Custom Fonts

The CSS @font-face Rule

CSS @font-face rule आपको custom fonts define karne aur webpage par use karne ki suvidha deta hai.

Font ko user ke computer par install karna zaroori nahi hota.

Jab आपको jo font chahiye, mil jaye ya aapne kharida ho, to bas us font file ko apne web server par include karen, aur jab zarurat ho, wo automatically user ke browser mein download ho jayegi.

Common Font Formats

Sabse zyada use hone wale font formats hain WOFF/WOFF2 web pages ke liye aur TTF/OTF desktop ke liye.

- **WOFF/WOFF2 (Web Open Font Format)**
WOFF/WOFF2 ko file size kam karne ke liye optimize kiya gaya hai aur ye web pages ke liye ideal font format hain. Yeh 2009 mein develop kiya gaya tha, aur ab W3C Recommendation hai. WOFF/WOFF2 sabhi major browsers mein supported hai.
- **TTF (TrueType Fonts) aur OTF (OpenType Fonts)**
TTF ko 1980s ke ant mein Apple ne develop kiya tha. OTF ko Apple aur Microsoft ne milke develop kiya. TTF Mac OS aur Microsoft Windows operating systems ke liye sabse common font format hai. OTF, TTF par built hai, ek advanced, scalable format hai jo rich typesetting features ko support karta hai. Dono formats popular hain apni accessibility aur quality ke liye, lekin ye web use ke liye optimized nahi hain.

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Use Your Custom Font

@font-face rule mein; pehle custom font ka naam specify karen (e.g. "myFont") font-family descriptor mein, phir font file ka path src descriptor mein den.

Phir, HTML element mein custom font use karne ke liye, font-family property ke through font ka naam ("myFont") refer karen:

Example

```
@font-face {
  font-family: myFont; /* set name */
  src: url(sansation_light.woff); /* url of the font */
}

p {
  font-family: myFont; /* use font */
}
```

Bold Custom Font

Aapko bold text ke liye ek aur @font-face rule add karna hoga, jo bold characters ke liye descriptors contain kare:

Example

```
@font-face {
  font-family: myFont;
  src: url(sansation_bold.woff);
  font-weight: bold;
}
```

"Sansation_bold.woff" ek aur font file hai, jo Sansation font ke bold characters ko contain karti hai.

Browsers is file ko use karenge jab font-family "myFont" ka koi text bold render hona ho.

Tip: Is tarah aap ek hi font ke liye kai @font-face rules bana sakte hain.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS 2D Transforms

CSS transform property ek element par **2D** ya **3D** transformation apply karti hai. Is property se aap elements ko rotate, scale, move, aur skew kar sakte hain.

Neeche wale element par mouse over karke **2D** transformation dekh sakte hain:



CSS 2D Transforms Functions

CSS transform property ke saath aap yeh following 2D transformation functions use kar sakte hain:

- **translate()**
- **rotate()**
- **scaleX()**
- **scaleY()**
- **scale()**
- **skewX()**
- **skewY()**
- **skew()**
- **matrix()**

The CSS translate() Function

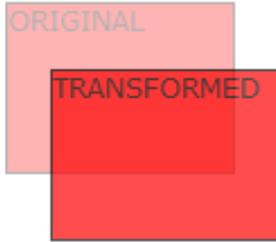
translate() function ek element ko apne current position se move karta hai (X-axis aur Y-axis ke diye gaye parameters ke according).

Niche wale example mein `<div>` element ko 50 pixels right aur 100 pixels down move kiya gaya hai:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
div {  
  transform: translate(50px, 100px);  
}
```

The CSS rotate() Function

rotate() function ek element ko clockwise ya counter-clockwise rotate karta hai, diye gaye degree ke according.

Niche wale example mein `<div>` element ko 20 degrees clockwise rotate kiya gaya hai:



Example

```
div {  
  transform: rotate(20deg);  
}
```

Negative values ka use karne se element counter-clockwise rotate hoga.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Niche wale example mein `<div>` element ko 20 degrees counter-clockwise rotate kiya gaya hai:

Example

```
div {  
  transform: rotate(-20deg);  
}
```

The CSS scale() Function

scale() function ek element ki size ko increase ya decrease karta hai (width aur height ke diye gaye parameters ke according).

Niche wale example mein `<div>` element ko apni original width se do times aur height se teen times increase kiya gaya hai:



Example

```
div {  
  transform: scale(2, 3);  
}
```

Niche wale example mein `<div>` element ko apni original width aur height ka aadha (half) kiya gaya hai:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
div {  
  transform: scale(0.5, 0.5);  
}
```

The CSS scaleX() Function

scaleX() function ek element ki width ko increase ya decrease karta hai.

Niche wale example mein `<div>` element ko apni original width se do times increase kiya gaya hai:

Example

```
div {  
  transform: scaleX(2);  
}
```

Niche wale example mein `<div>` element ko apni original width ka aadha kiya gaya hai:

Example

```
div {  
  transform: scaleX(0.5);  
}
```

The CSS scaleY() Function

scaleY() function ek element ki height ko increase ya decrease karta hai.

Niche wale example mein `<div>` element ko apni original height se teen times increase kiya gaya hai:

Example

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
div {  
  transform: scaleY(3);  
}
```

Niche wale example mein `<div>` element ko apni original height ka aadha kiya gaya hai:

Example

```
div {  
  transform: scaleY(0.5);  
}
```

The CSS skewX() Function

skewX() function ek element ko X-axis ke along skew karta hai, diye gaye angle ke according.

Niche wale example mein `<div>` element ko X-axis ke along 20 degrees skew kiya gaya hai:

Example

```
div {  
  transform: skewX(20deg);  
}
```

The CSS skewY() Function

skewY() function ek element ko Y-axis ke along skew karta hai, diye gaye angle ke according.

Niche wale example mein `<div>` element ko Y-axis ke along 20 degrees skew kiya gaya hai:

Example

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
div {  
  transform: skewY(20deg);  
}
```

The CSS skew() Function

skew() function ek element ko X aur Y-axis ke along diye gaye angles se skew karta hai.

Niche wale example mein <div> element ko X-axis ke along 20 degrees, aur Y-axis ke along 10 degrees skew kiya gaya hai:

Example

```
div {  
  transform: skew(20deg, 10deg);  
}
```

Agar doosra parameter specify nahi kiya gaya ho, to uska value zero hota hai. Toh niche wala example <div> element ko X-axis ke along 20 degrees skew karega:

Example

```
div {  
  transform: skew(20deg);  
}
```

The CSS matrix() Function

matrix() function sabhi 2D transform functions ko ek saath combine karta hai.

matrix() function chhhe parameters leta hai, jo mathematical functions ko contain karte hain, jo elements ko rotate, scale, move (translate), aur skew karne ki suvidha dete hain.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Parameters kuch is tarah hote hain: matrix(scaleX(), skewY(), skewX(), scaleY(), translateX(), translateY())



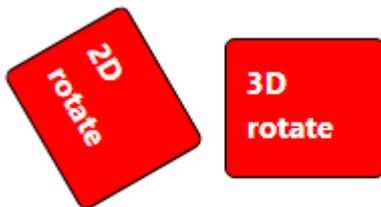
Example

```
div {  
  transform: matrix(1, -0.3, 0, 1, 0, 0);  
}
```

CSS 3D Transforms

CSS transform property ek element par 2D ya 3D transformation apply karti hai. Is property se aap elements ko rotate, scale, move, aur skew kar sakte hain.

Neeche wale elements par mouse over karke aap 2D aur 3D transformation ke beech ka difference dekh sakte hain:



CSS 3D Transforms Functions

CSS transform property ke saath aap yeh following 3D transformation functions use kar sakte hain:

- **rotateX()**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

- **rotateY()**
- **rotateZ()**

The CSS rotateX() Function

rotateX() function ek element ko uske X-axis ke around diye gaye degree par rotate karta hai:

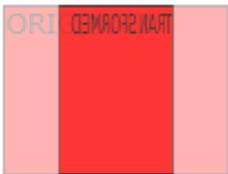


Example

```
#myDiv {  
  transform: rotateX(150deg);  
}
```

The CSS rotateY() Function

rotateY() function ek element ko uske Y-axis ke around diye gaye degree par rotate karta hai:



Example

```
#myDiv {  
  transform: rotateY(150deg);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS rotateZ() Function

rotateZ() function ek element ko uske Z-axis ke around diye gaye degree par rotate karta hai:

Example

```
#myDiv {  
  transform: rotateZ(90deg);  
}
```

CSS Transitions

CSS transitions आपको property values ko smoothly, ek diye gaye duration ke andar change karne ki suvidha deti hain.

Neeche wale element par mouse over karke aap CSS transition effect dekh sakte hain:



The CSS transition Property

Transition effect banane ke liye, आपको us CSS property ko specify karna hoga jisme aap transition add karna chahte hain, aur transition ka duration.

CSS transition property ek shorthand property hai:

- **transition-property** (Required)
- **transition-duration** (Required)

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

- **transition-timing-function**
- **transition-delay**

CSS Transition Example

Niche wale example mein ek 100px * 100px <div> element hai. Is <div> element mein width property ke liye transition effect specified hai, jo 2 seconds mein change hoga:

Example

```
div {  
  width: 100px;  
  height: 100px;  
  background-color: red;  
  transition: width 2s;  
}
```

How to Trigger the Transition

Transition tab trigger hota hai jab element ki properties change hoti hain. Yeh aksar pseudo-classes (:hover, :active, :focus, ya :checked) mein hota hai.

Toh, upar diye gaye code se, transition effect tab start hoga jab width property ka value change hoga.

Ab, hum ek `div:hover` class add karte hain jo user jab <div> element par mouse over kare, tab width property ka naya value specify karega:

Example

```
div:hover {  
  width: 300px;  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Dhyan de ki jab cursor element se bahar jayega, toh woh gradually apne original style par wapas aa jayega.

Change Multiple Property Values

Aap multiple properties ko change kar sakte hain unhe commas se separate karke.

Niche wale example mein width, height, aur background-color properties ke liye transition effect add kiya gaya hai, jisme width ka duration 2 seconds, height ka 4 seconds, aur background-color ka 3 seconds hai:

Example

```
div {  
  transition: width 2s, height 4s, background-color 3s;  
}
```

CSS Transition Speed Curve

transition-timing-function property transition effect ki speed curve ko specify karti hai.

Yeh property in values mein se koi bhi le sakti hai:

- **ease** - transition dheere se start hoga, phir fast hoga, aur dheere se end hoga (yeh default hota hai)
- **linear** - transition start se end tak same speed pe rahega
- **ease-in** - transition dheere se start hoga
- **ease-out** - transition dheere se end hoga
- **ease-in-out** - transition ka start aur end dono dheere honge
- **cubic-bezier(n,n,n,n)** - aap apne khud ke values cubic-bezier function mein define kar sakte hain

Niche wale example mein transition speed curves dikhaye gaye hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
#div1 {transition-timing-function: linear;}
#div2 {transition-timing-function: ease;}
#div3 {transition-timing-function: ease-in;}
#div4 {transition-timing-function: ease-out;}
#div5 {transition-timing-function: ease-in-out;}
```

CSS Transition Delay

transition-delay property transition ke start hone se pehle delay specify karti hai.

transition-delay ki value seconds (s) ya milliseconds (ms) mein di ja sakti hai.

Niche wale example mein 1 second ka delay specify kiya gaya hai:

Example

```
div {
  transition-delay: 1s;
}
```

Transition + Transform

Niche wale example mein transition aur transform ko combine kiya gaya hai ek <div> ke liye:

Example

```
div {
  transition: width 2s, height 2s, background-color 2s,
  transform 2s;
}
```

Niche wale example mein transition aur transform ko combine kiya gaya hai ek button ke liye:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
button {  
  transition: background-color 1s ease-out, transform 1s ease-out;  
}
```

More Transition Examples

CSS transition properties ko ek-ek karke bhi specify kiya ja sakta hai, jaise:

Example

```
div {  
  transition-property: width;  
  transition-duration: 2s;  
  transition-timing-function: linear;  
  transition-delay: 1s;  
}
```

Ya phir shorthand property `transition` ka use karke:

Example

```
div {  
  transition: width 2s linear 1s;  
}
```

CSS Animations

CSS allow karta hai HTML elements ko bina JavaScript ke animate karne ka!

What are CSS Animations?

Ek animation element ko dheere dheere ek style se doosre style mein badalne ka process hota hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Aap jitne chahen CSS properties ko change kar sakte hain, aur jitni baar chahein.

CSS animation use karne ke liye aapko animation ke liye kuch keyframes specify karni padti hain.

Keyframes define karte hain ki animation ke kis time par element ko kis style ki zarurat hogi.

CSS **animation-name** aur **animation-duration**

- **animation-name** property animation ka naam specify karti hai.
- **animation-duration** property batati hai ki animation ko complete hone mein kitna time lagega. Agar yeh property specify nahi ki gayi, toh default value 0s (0 seconds) hoti hai, aur koi animation nahi hoti.

CSS **@keyframes** Rule

Jab aap CSS styles ko `@keyframes` rule ke andar specify karte ho, toh animation gradually current style se new style mein transition hoti hai.

Animation ko kaam karwane ke liye aapko animation ko element se bind karna padta hai.

Example:

```
/* The animation code */
@keyframes myAnimation {
  from {background-color: red;}
  to {background-color: yellow;}
}

/* The element to apply the animation to */
div {
  width: 100px;
  height: 100px;
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
background-color: red;  
animation-name: myAnimation;  
animation-duration: 4s;  
}
```

Is example mein "from" aur "to" keywords ka use kiya gaya hai, jo represent karte hain 0% (start) aur 100% (complete).

Aap percent ka use karke bhi style changes kar sakte hain.

Example:

```
@keyframes myAnimation {  
  0%   {background-color: red;}  
  25%  {background-color: yellow;}  
  50%  {background-color: blue;}  
  100% {background-color: green;}  
}  
  
div {  
  width: 100px;  
  height: 100px;  
  background-color: red;  
  animation-name: myAnimation;  
  animation-duration: 4s;  
}
```

Yeh example background-color ko 25%, 50%, aur 100% ke points par change karega.

Agar aap background-color ke saath position bhi change karna chahein toh:

Example:

```
@keyframes myAnimation {  
  0%   {background-color:red; left:0px; top:0px;}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
25% {background-color:yellow; left:200px; top:0px;}
50% {background-color:blue; left:200px; top:200px;}
75% {background-color:green; left:0px; top:200px;}
100% {background-color:red; left:0px; top:0px;}
}

div {
  width: 100px;
  height: 100px;
  position: relative;
  background-color: red;
  animation-name: myAnimation;
  animation-duration: 4s;
}
```

CSS animation-delay Property

animation-delay property animation ke start hone mein delay specify karti hai.

Example:

```
div {
  width: 100px;
  height: 100px;
  position: relative;
  background-color: red;
  animation-name: myAnimation;
  animation-duration: 4s;
  animation-delay: 2s;
}
```

Yeh example 2 seconds ka delay karega animation start karne se.

Negative values bhi allow hoti hain. Agar aap negative value use karte hain, toh animation us tarah start hoti hai jaise ki wo pehle se 2 seconds se chal rahi ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  position: relative;  
  background-color: red;  
  animation-name: myAnimation;  
  animation-duration: 4s;  
  animation-delay: -2s;  
}
```

CSS animation-iteration-count Property

`animation-iteration-count` property specify karti hai ki animation kitni baar chalegi.

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  position: relative;  
  background-color: red;  
  animation-name: myAnimation;  
  animation-duration: 4s;  
  animation-iteration-count: 3;  
}
```

Yeh animation ko 3 baar run karega.

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  position: relative;  
  background-color: red;  
  animation-name: myAnimation;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
animation-duration: 4s;  
animation-iteration-count: infinite;  
}
```

Isme animation hamesha chalti rahegi.

CSS `animation-direction` Property

`animation-direction` property specify karti hai ki animation forward, backward, ya alternate cycles mein play hogi.

Iske values hain:

- normal - Default, animation forward chalegi.
- reverse - Animation reverse chalegi.
- alternate - Animation forward pehle chalegi, phir reverse chalegi.
- alternate-reverse - Animation reverse pehle chalegi, phir forward chalegi.

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  position: relative;  
  background-color: red;  
  animation-name: myAnimation;  
  animation-duration: 4s;  
  animation-direction: reverse;  
}
```

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  position: relative;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
background-color: red;
animation-name: myAnimation;
animation-duration: 4s;
animation-iteration-count: 2;
animation-direction: alternate;
}
```

Example:

```
div {
width: 100px;
height: 100px;
position: relative;
background-color: red;
animation-name: myAnimation;
animation-duration: 4s;
animation-iteration-count: 2;
animation-direction: alternate-reverse;
}
```

CSS animation-timing-function Property

`animation-timing-function` property animation ke speed curve ko specify karti hai.

Iske values hain:

- `ease` - Slow start, fast middle, slow end (default).
- `linear` - Same speed throughout.
- `ease-in` - Slow start.
- `ease-out` - Slow end.
- `ease-in-out` - Slow start and end.
- `cubic-bezier(n, n, n, n)` - Custom speed curve.

Example:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
#div1 {animation-timing-function: linear;}
#div2 {animation-timing-function: ease;}
#div3 {animation-timing-function: ease-in;}
#div4 {animation-timing-function: ease-out;}
#div5 {animation-timing-function: ease-in-out;}
```

CSS `animation-fill-mode` Property

CSS animations element ko animation ke start ya end pe koi style apply nahi karte jab tak animation chal nahi rahi hoti. `animation-fill-mode` property is behavior ko override karti hai.

Iski values hain:

- `none` - Default, koi style apply nahi hoti before ya after animation.
- `forwards` - Element animation ke last keyframe ki styles retain karega.
- `backwards` - Element animation ke first keyframe ki styles ko retain karega.
- `both` - Element animation ke dono directions (forwards and backwards) ki styles retain karega.

Example:

```
div {
  width: 100px;
  height: 100px;
  background: red;
  position: relative;
  animation-name: myAnimation;
  animation-duration: 3s;
  animation-fill-mode: forwards;
}
```

Example:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
div {  
  width: 100px;  
  height: 100px;  
  background: red;  
  position: relative;  
  animation-name: myAnimation;  
  animation-duration: 3s;  
  animation-delay: 2s;  
  animation-fill-mode: backwards;  
}
```

Example:

```
div {  
  width: 100px;  
  height: 100px;  
  background: red;  
  position: relative;  
  animation-name: myAnimation;  
  animation-duration: 3s;  
  animation-delay: 2s;  
  animation-fill-mode: both;  
}
```

CSS Animation Shorthand Property

Aap 6 animation properties ko ek hi shorthand property mein likh sakte hain.

Example:

```
div {  
  animation-name: myAnimation;  
  animation-duration: 5s;  
  animation-timing-function: linear;  
  animation-delay: 2s;  
  animation-iteration-count: infinite;  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
animation-direction: alternate;  
}
```

Yeh shorthand form mein likha ja sakta hai:

Example:

```
div {  
  animation: myAnimation 5s linear 2s infinite alternate;  
}
```

CSS Tooltip

CSS tooltip ka use hota hai jab user mouse pointer ko kisi element ke upar le jaata hai, toh uske baare mein extra information dikhane ke liye.

Basic Tooltip Banaye

Ek tooltip banaye jo tab appear hoti hai jab user mouse ko ek element ke upar le jaata hai:

Example:

```
<style>  
/* Tooltip container */  
.tooltip {  
  position: relative;  
  display: inline-block;  
  border-bottom: 1px dotted black; /* Add dots under the hoverable text */  
  cursor: pointer;  
}  
  
/* Tooltip text */  
.tooltiptext {  
  visibility: hidden; /* Hidden by default */  
  width: 130px;  
  background-color: black;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
color: #ffffff;
text-align: center;
padding: 5px 0;
border-radius: 6px;
position: absolute;
z-index: 1; /* Ensure tooltip is displayed above content */
}

/* Show the tooltip text on hover */
.tooltip:hover .tooltiptext {
  visibility: visible;
}
</style>

<div class="tooltip">Hover over me
  <span class="tooltiptext">Some tooltip text</span>
</div>
```

Example Explanation

HTML:

- Ek container element (jaise `<div>`) use karein aur usmein "tooltip" class add karein. Jab user mouse ko is `<div>` ke upar le jaayega, tooltip text dikhayi dega.
- Tooltip text ko ek inline element (jaise ``) ke andar rakhein, jisme `class="tooltiptext"` ho.

CSS:

- Tooltip class `position: relative` use karti hai, jo tooltip text ko position karne ke liye zaroori hoti hai (jo `position: absolute` hai).
- Tooltiptext class mein actual tooltip text hota hai. Yeh default mein hidden hota hai, aur hover karte hi visible ho jaata hai.
- `:hover` selector ka use karke tooltip text ko show karte hain jab user mouse ko `<div>` ke upar le jaata hai, jisme "tooltip" class ho.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Positioning the Tooltip

Aap tooltip ko apne hisaab se position kar sakte hain. Yahan hum dikhayenge kaise tooltip ko left, right, top, aur bottom position kar sakte hain.

Right- aur Left-aligned Tooltip

Is example mein, tooltip ko "hoverable" text ke right (left: 105%) par place kiya gaya hai. `top: -5px` isliye diya gaya hai kyunki tooltip ko apne container ke middle mein rakhna hai.

Right-aligned tooltip:

```
.tooltiptext {  
  top: -5px;  
  left: 105%;  
}
```

Result:



Left-aligned tooltip:

```
.tooltiptext {  
  top: -5px;  
  right: 105%;  
}
```

Result:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Top- aur Bottom-aligned Tooltip

Agar aap tooltip ko top ya bottom par position karna chahte hain, toh neeche diye gaye examples dekhein. Yahan margin-left ko -65px diya gaya hai, jo tooltip ko center mein laane ke liye hai.

Top-aligned tooltip:

```
.tooltiptext {  
  width: 130px;  
  bottom: 100%;  
  left: 65%;  
  margin-left: -65px; /* Use half of the width (130/2 = 65),  
to center the tooltip */  
}
```

Result:



Bottom-aligned tooltip:

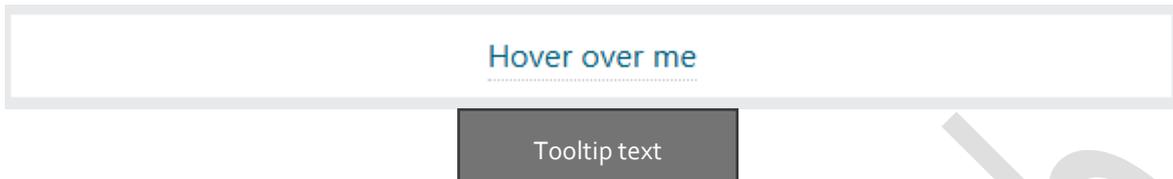
```
.tooltiptext {  
  width: 130px;  
  top: 100%;  
  left: 50%;  
  margin-left: -65px; /* Use half of the width (130/2 = 65),  
to center the tooltip */  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Result:



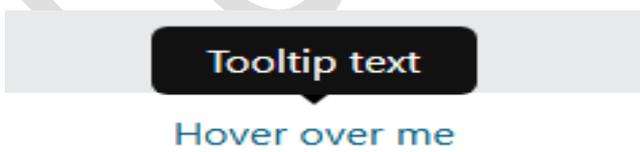
Tooltip Arrows

Agar aap chahte hain ki tooltip ke kisi side se arrow dikhai de, toh "empty" content add karein after tooltip, pseudo-element `::after` ke saath `content` property ka use karke. Arrow ko borders se banaya jaata hai. Isse tooltip speech bubble ki tarah dikhegi.

Bottom Arrow

```
.tooltiptext::after {  
  content: " ";  
  position: absolute;  
  top: 100%; /* At the bottom of the tooltip */  
  left: 50%;  
  margin-left: -5px;  
  border-width: 5px;  
  border-style: solid;  
  border-color: black transparent transparent transparent;  
}
```

Result:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Top Arrow

```
.tooltiptext::after {
  content: " ";
  position: absolute;
  bottom: 100%; /* At the top of the tooltip */
  left: 50%;
  margin-left: -5px;
  border-width: 5px;
  border-style: solid;
  border-color: transparent transparent black transparent;
}
```

Result:



Left Arrow

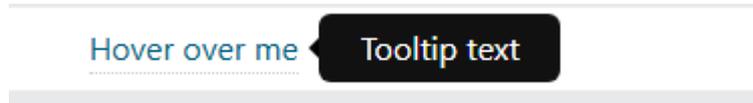
```
.tooltiptext::after {
  content: " ";
  position: absolute;
  top: 50%;
  right: 100%; /* To the left of the tooltip */
  margin-top: -5px;
  border-width: 5px;
  border-style: solid;
  border-color: transparent black transparent transparent;
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Result:



Right Arrow

Right Arrow Example:

```
.tooltiptext::after {
  content: " ";
  position: absolute;
  top: 50%;
  left: 100%; /* To the right of the tooltip */
  margin-top: -5px;
  border-width: 5px;
  border-style: solid;
  border-color: transparent transparent transparent black;
}
```

Result:



Fade-in Tooltip

Agar aap chahte hain ki tooltip fade-in ho, toh `transition` property aur `opacity` ka use karein, jisme tooltip completely invisible se 100% visible ho jaati hai, kuch specified seconds (2 seconds yahan example mein):

Example:

```
.tooltiptext {
  opacity: 0;
  transition: opacity 2s;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
}  
.tooltip:hover .tooltiptext {  
  opacity: 1;  
}
```

CSS Styling Images

CSS ka use karke images ko style kaise karein, yeh seekhein.

Rounded Images

Aap `border-radius` property ka use karke rounded images bana sakte ho:

Example



```
img {  
  border-radius: 8px;  
}
```

Paris Example

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



```
img {  
  border-radius: 50%;  
}
```

Tip: CSS Image Shapes chapter dekhiye jisme aap images ko circles, ellipses aur polygons jaisi shapes mein clip karna seekh sakte ho.

Thumbnail Images

Thumbnail images banane ke liye `border` property ka use karein:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

```
img {  
  border: 1px solid #ddd;  
  border-radius: 4px;  
  padding: 5px;  
  width: 150px;  
}
```

Thumbnail image as a link:



Example

```
img {  
  border: 1px solid #ddd;  
  border-radius: 4px;  
  padding: 5px;  
  width: 150px;  
}  
  
img:hover {  
  box-shadow: 0 0 2px 1px rgba(0, 140, 186, 0.5);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Responsive Images

Responsive images apne aap screen ki size ke hisaab se adjust ho jaati hain.

Browser window ko resize karke effect dekhein:



Agar aap chahte ho ki image zarurat pade tabhi chhoti ho, lekin kabhi bhi apne original size se badi na ho, to yeh CSS add karein:

Example

```
img {  
  max-width: 100%;  
  height: auto;  
}
```

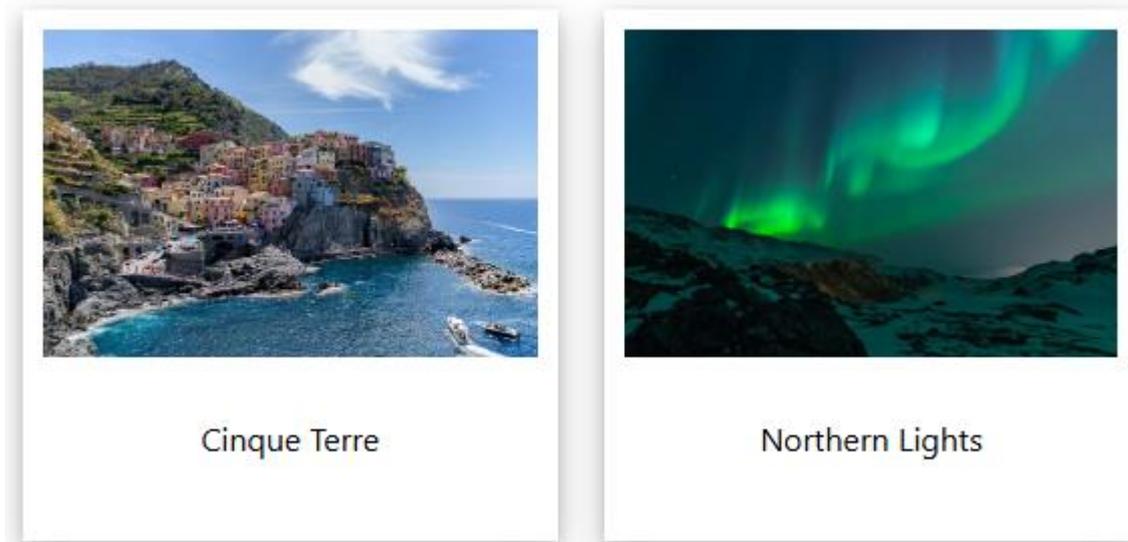
Tip: Responsive Web Design ke baare mein aur padhne ke liye hamara CSS RWD Tutorial dekhein.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Polaroid Images / Cards



Example

```
div.polaroid {  
  width: 80%;  
  background-color: white;  
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0  
  rgba(0, 0, 0, 0.19);  
}  
  
img {width: 100%}  
  
div.container {  
  text-align: center;  
  padding: 10px 20px;  
}
```

CSS Image Opacity

opacity property element ki transparency define karti hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Opacity ki value **0.0 - 1.0** ke beech hoti hai:

- **0.0** – Element bilkul transparent hoga
- **0.5** – Element 50% transparent hoga
- **1.0** – Default. Element fully opaque hoga



opacity 0.2



opacity 0.5



opacity 1.0
(default)

Example

```
img {  
  opacity: 0.5;  
}
```

Tip: CSS Image Filters chapter dekhein jisme aap filter property se opacity, blur, saturation jaise visual effects apply karna seekh sakte ho.

Image Text

Image ke upar text kaise position karein:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

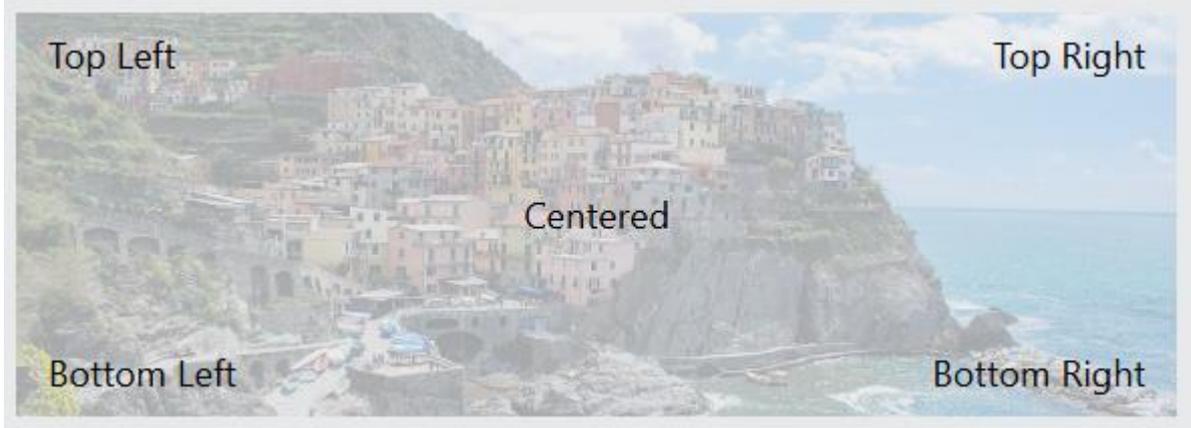


Image Hover Overlay

Hover par overlay effect kaise create karein:

Example

Fade in text:

Avatar

Hello World

Example

Fade in a box:

Avatar

John

Example

Slide in (top):

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Avatar

Hello World

Example

Slide in (bottom):

Avatar

Hello World

Example

Slide in (left):

Avatar

Hello World

Example

Slide in (right):

Avatar

Hello World

Flip an Image

Mouse ko image par le jao:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
img:hover {  
  transform: scaleX(-1);  
}
```

Responsive Image Gallery

CSS ka use karke responsive image galleries banayi jaa sakti hain. Yeh example media queries ka use karta hai jo different screen sizes par images ko re-arrange karta hai.

Browser window ko resize karke effect dekhein:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
@media only screen and (max-width: 768px) {  
  div.gallery-item {  
    width: calc(50% - 20px);  
  }  
}
```

```
@media only screen and (max-width: 480px) {  
  div.gallery-item {  
    width: calc(100% - 20px);  
  }  
}
```

CSS Responsive Modal Images

Responsive Modal Image Gallery

Ek **modal image** user ko yeh ability deti hai ki woh kisi image ka **bada version** dekh sake bina current page se navigate kiye. Jab user modal image par click karta hai, to ek popup window show hoti hai jo webpage ke main content ke upar appear hoti hai, aksar ek semi-transparent background ke saath. Modal ko user ko hi close karna hota hai, aam taur par ek "close" button ya top-right corner mein ek "X" sign se.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yeh example dikhata hai ki kaise HTML, CSS aur JavaScript ko saath mein use karke ek responsive modal image gallery banayi ja sakti hai.

Hum CSS ka use karke ek modal window (dialog box) banate hain, aur default mein use hide kar dete hain.

Phir, hum JavaScript ka use karte hain taaki jab user image par click kare, to modal window sahi image ke saath show ho jaaye:



Example

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<style>
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
h1 {
  text-align: center;
  padding: 20px;
}
.gallery {
  display: flex;
  flex-wrap: wrap;
  justify-content: flex-start;
  padding: 0 15px;
}
.gallery-item {
  position: relative;
```

LEARNING HUB
SHAHABAD MARKANDA
☎️ **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
width: calc(25% - 20px);
height: auto;
margin: 10px;
cursor: pointer;
transition: transform 0.5s ease;
}

.gallery-item:hover {
  transform: scale(1.1);
}

/* The Modal (background) */
.modal {
  display: none;
  position: fixed;
  z-index: 1000;
  left: 0;
  top: 0;
  width: 100%;
  height: 100%;
  background-color: rgba(0, 0, 0, 0.8);
  align-items: center;
  justify-content: center;
  transition: opacity 0.5s ease;
}

/* Modal content (image) */
.modal-content {
  position: relative;
  width: 90%;
  height: auto;
  max-width: 90%;
  max-height: 90%;
  border-radius: 5px;
  overflow: hidden;
  animation: zoomIn 0.5s;
}

@keyframes zoomIn {
  from {transform: scale(0.6);}
  to {transform: scale(1);}
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.modal.show {
  display: flex;
  opacity: 1;
}

/* Close button */
.close {
  position: absolute;
  top: 10px;
  right: 15px;
  color: #ffffff;
  font-size: 35px;
  font-weight: bold;
  cursor: pointer;
  transition: transform 0.3s;
}

/* Caption of modal image */
.caption {
  position: absolute;
  bottom: 15px;
  width: 100%;
  text-align: center;
  color: #ffffff;
  font-size: 24px;
}

@media screen and (max-width: 768px) {
  .gallery-item {
    width: calc(50% - 20px);
  }
}

@media screen and (max-width: 480px) {
  .gallery-item {
    width: calc(100% - 20px);
  }
}
</style>
</head>
<body>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

`<h1>Responsive Modal Images</h1>`

```
<div class="gallery">
  
  
  
  
</div>

<div id="modal1" class="modal">
  <span class="close" onclick="closeModal('modal1')">&times;</span>
  
  <div class="caption"></div>
</div>

<div id="modal2" class="modal">
  <span class="close" onclick="closeModal('modal2')">&times;</span>
  
  <div class="caption"></div>
</div>

<div id="modal3" class="modal">
  <span class="close" onclick="closeModal('modal3')">&times;</span>
  
  <div class="caption"></div>
</div>

<div id="modal4" class="modal">
  <span class="close" onclick="closeModal('modal4')">&times;</span>
  
  <div class="caption"></div>
</div>

<script>
function openModal(modalId, caption) {
  let modal = document.getElementById(modalId);
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
modal.style.display = "flex";  
modal.classList.add("show");  
let message = modal.querySelector(".caption");  
message.innerText = caption;  
}
```

```
function closeModal(modalId) {  
  let modal = document.getElementById(modalId);  
  modal.classList.remove("show");  
  setTimeout(function () {  
    modal.style.display = "none";  
    modal.querySelector(".caption").innerText = "";  
  }, 300);  
}  
</script>
```

```
</body>  
</html>
```

CSS Centering Images

Centering Images

CSS ki madad se aap images ko kai tarikon se center kar sakte ho.

Ek image ko horizontally, vertically, ya dono tareeke se center kiya ja sakta hai.

Center an Image Horizontally

Agar humein ek image ko horizontally center karna ho, to hum `margin: auto;` ya `display: flex;` ka use kar sakte hain.

1. Using margin: auto

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Page par image ko horizontally center karne ka ek tarika hai `margin: auto` ka use karna.

Lekin `` element by default ek inline element hota hai (aur inline elements par `margin: auto` ka effect nahi hota), isliye humein image ko block element banana padega, `display: block` ke saath.

Iske alawa, humein ek width define karni hoti hai. Image ki width page ki width se chhoti honi chahiye.

Yeh hai ek horizontally centered image using `margin: auto`:



Example

Horizontally centered image using `margin: auto`:

```
img {  
  display: block;  
  margin: auto;  
  width: 50%;  
}
```

2. Using `display: flex`

Horizontally center karne ka doosra tarika hai `display: flex` ka use karna.

Is method mein hum `` element ko ek `<div>` container ke andar rakhte hain.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Phir hum div container mein yeh CSS add karte hain:

- `display: flex`
- `justify-content: center` (image ko horizontally center karta hai)

Uske baad hum image ki width set karte hain (jo container se chhoti honi chahiye).

Yeh hai horizontally centered image using `display: flex`:



Example

Horizontally centered image using `display: flex`:

```
div {  
  display: flex;  
  justify-content: center;  
}  
  
img {  
  width: 50%;  
}
```

Vertical and Horizontal Centering

Agar humein ek image ko dono, vertically aur horizontally center karna ho (true centering), to hum `display: flex`; ya `display: grid`; ka use kar sakte hain.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

1. Using display: flex

Ek image ko flexbox ki madad se vertically aur horizontally center karne ke liye humein yeh properties use karte hain:

- `display: flex;`
- `justify-content: center;` (image ko horizontally center karta hai)
- `align-items: center;` (image ko vertically center karta hai)
- `height: 600px;` (container ki height)

Is method mein hum `` element ko `<div>` container ke andar rakhte hain.

Phir hum image ki width set karte hain (container se chhoti).

Yeh hai vertically aur horizontally centered image using flexbox:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

True centering using display: flex:

```
div {  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 600px;  
  border: 1px solid black;  
}  
  
img {  
  width: 50%;  
}
```

2. Using display: grid

Grid ke saath image ko vertically aur horizontally center karne ke liye hum yeh use karte hain:

- display: grid;
- place-items: center; (image ko horizontally aur vertically dono center karta hai)
- height: 600px;

Is method mein bhi hum `` element ko ek `<div>` container ke andar rakhte hain.

Phir hum image ki width set karte hain (container se chhoti).

Yeh hai vertically aur horizontally centered image using grid:

LEARNING HUB SHAHABAD MARKANDA

📞 CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

True centering using display: grid:

```
div {  
  display: grid;  
  place-items: center;  
  height: 600px;  
  border: 1px solid black;  
}
```

```
img {
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
width: 50%;
```

```
}
```

CSS Image Filter Effects

CSS Filters

CSS ka `filter` property elements par visual effects (jaise blur aur saturation) add karne ke liye use hota hai.

Filter property ke andar aap ye CSS functions use kar sakte ho:

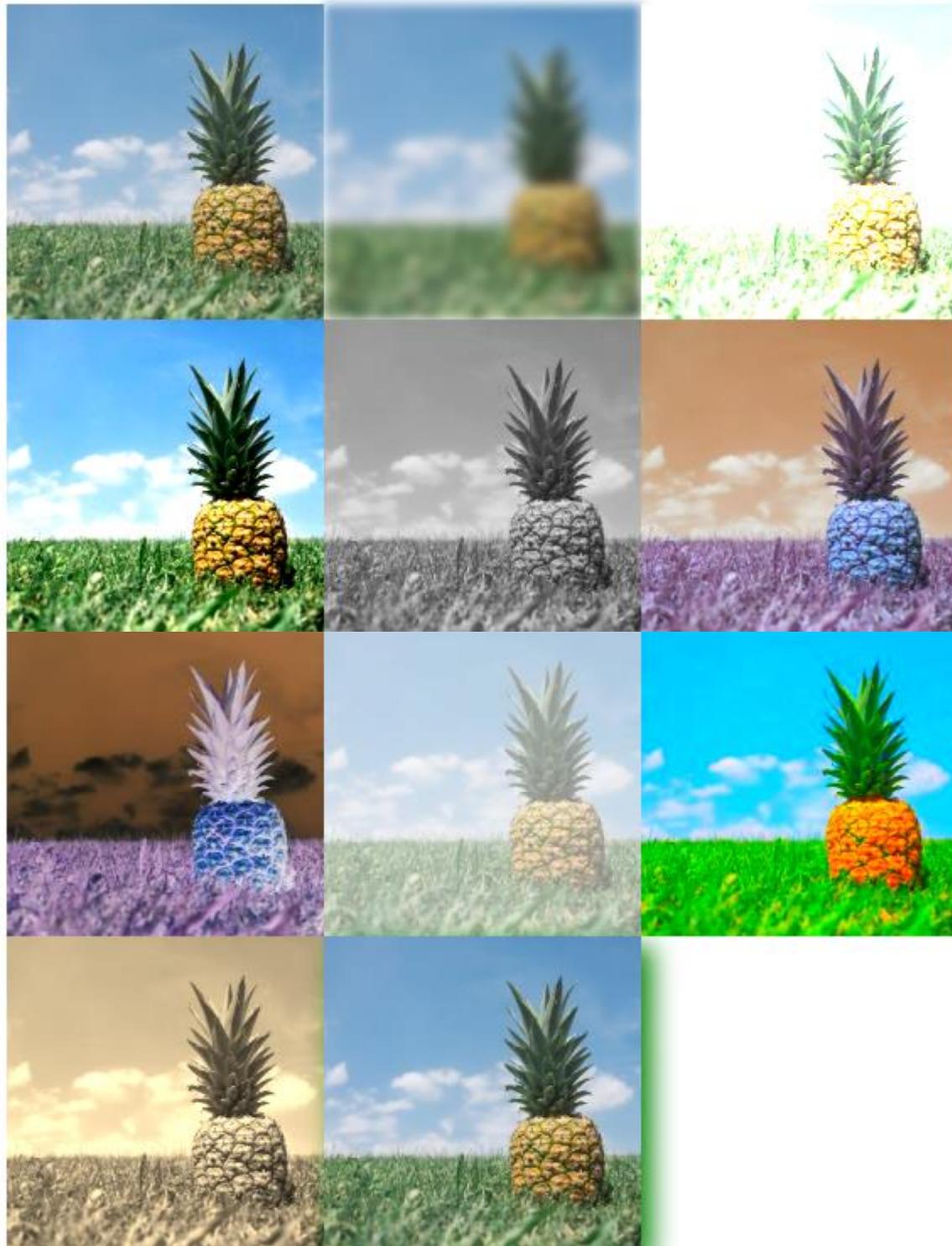
- `blur()`
 - `brightness()`
 - `contrast()`
 - `drop-shadow()`
 - `grayscale()`
 - `hue-rotate()`
 - `invert()`
 - `opacity()`
 - `saturate()`
 - `sepia()`
-

CSS Image Filters

LEARNING HUB
SHAHABAD MARKANDA
☎ **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS blur() Function

`blur()` filter function kisi element par blur effect apply karta hai. Jitni badi value hogi, utna zyada blur hoga.

Agar koi value specify nahi ki gayi, to default 0 use hota hai (no effect).

Example

`` elements par alag-alag blur effects apply karo:

```
#img1 {  
  filter: blur(2px);  
}
```

```
#img2 {  
  filter: blur(6px);  
}
```

The CSS brightness() Function

`brightness()` filter function element ki brightness adjust karta hai.

- 100% default hota hai (original brightness)
- 100% se zyada values image ko brighter banati hain
- 100% se kam values image ko darker banati hain
- 0% image ko completely black kar deta hai

Example

Image ko original se brighter aur darker banao:

```
#img1 {  
  filter: brightness(150%);  
}
```

```
#img2 {  
  filter: brightness(50%);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS contrast() Function

`contrast()` filter function element ka contrast adjust karta hai.

- 100% default hota hai (original contrast)
- 100% se upar — contrast increase hota hai
- 100% se niche — contrast decrease hota hai
- 0% image ko completely gray bana deta hai

Example

Image ka contrast increase aur decrease karo:

```
#img1 {  
  filter: contrast(150%);  
}  
  
#img2 {  
  filter: contrast(50%);  
}
```

The CSS drop-shadow() Function

`drop-shadow()` filter function image par drop-shadow effect apply karta hai.

Example

Image par different drop-shadow effects add karo:

```
#img1 {  
  filter: drop-shadow(8px 8px 10px gray);  
}  
  
#img2 {  
  filter: drop-shadow(10px 10px 7px lightblue);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS grayscale() Function

`grayscale()` filter function image ko grayscale mein convert karta hai.

- 100% (ya 1) — image completely grayscale
- 0% (ya 0) — koi effect nahi

Example

Image par various grayscale apply karo:

```
#img1 {  
  filter: grayscale(1);  
}  
  
#img2 {  
  filter: grayscale(60%);  
}  
  
#img3 {  
  filter: grayscale(0.4);  
}
```

The CSS hue-rotate() Function

`hue-rotate()` filter function element par color rotation apply karta hai.

Yeh image ka hue rotate karta hai. Value image ke hue ko color circle mein kitne degrees rotate karna hai yeh define karti hai.

Positive value hue ko increase karti hai, negative value decrease karti hai.

0deg original image hoti hai.

Example

Image ke hue ko various degrees mein rotate karo:

```
#img1 {  
  filter: hue-rotate(200deg);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
#img2 {  
  filter: hue-rotate(90deg);  
}
```

```
#img3 {  
  filter: hue-rotate(-90deg);  
}
```

The CSS invert() Function

invert() filter function image ke colors ko invert karta hai.

- 100% (ya 1) — colors fully invert
- 0% (ya 0) — no effect

Example

Image ke colors invert karo:

```
#img1 {  
  filter: invert(0.3);  
}  
  
#img2 {  
  filter: invert(70%);  
}  
  
#img3 {  
  filter: invert(100%);  
}
```

The CSS opacity() Function

opacity() filter function element par opacity effect apply karta hai.

- 100% (ya 1) — no effect
- 50% (ya 0.5) — 50% transparent

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- 0% (ya 0) — completely transparent

Example

Image par various opacity apply karo:

```
#img1 {  
  filter: opacity(80%);  
}  
  
#img2 {  
  filter: opacity(50%);  
}  
  
#img3 {  
  filter: opacity(0.2);  
}
```

The CSS saturate() Function

saturate() filter function element ki saturation (color intensity) adjust karta hai.

- 100% (ya 1) — no effect
- 0% — completely unsaturated (colorless)
- 200% (ya 2) — super saturated

Example

Image par various saturations apply karo:

```
#img1 {  
  filter: saturate(0);  
}  
  
#img2 {  
  filter: saturate(100%);  
}  
  
#img3 {  
  filter: saturate(200%);  
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS `sepia()` Function

`sepia()` filter function image ko sepia tone mein convert karta hai (warmer brown/yellow color).

- 0% (ya 0) — no effect
- 100% (ya 1) — full sepia

Example

Image par various sepia effects apply karo:

```
#img1 {
  filter: sepia(1);
}

#img2 {
  filter: sepia(60%);
}

#img3 {
  filter: sepia(0.4);
}
```

CSS Image Shapes

CSS ke saath images ko circles, ellipses aur polygons mein shape (clip) karna bahut aasaan hai.

CSS `clip-path` Property and the `circle()` Function

`clip-path` property आपको किसी element को एक basic shape par clip karne deti hai.

`circle()` function ek circle define karta hai ek radius aur ek position ke saath.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yahaan hum ek image ko 50% radius ke circle mein clip kar rahe hain:



Example

Clip an image to a circle with 50% radius:

```
img {  
  clip-path: circle(50%);  
}
```

Hum circle ka center bhi specify kar sakte hain. Yeh ek length ya percentage value ho sakti hai. Yeh left, right, top, ya bottom jaisi values bhi ho sakta hai. Default value center hoti hai.

Yahaan hum image ko 50% radius ke circle mein clip karte hain aur circle ka center right par position karte hain:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

Clip an image to a circle with 50% radius and position the center of the circle to the right:

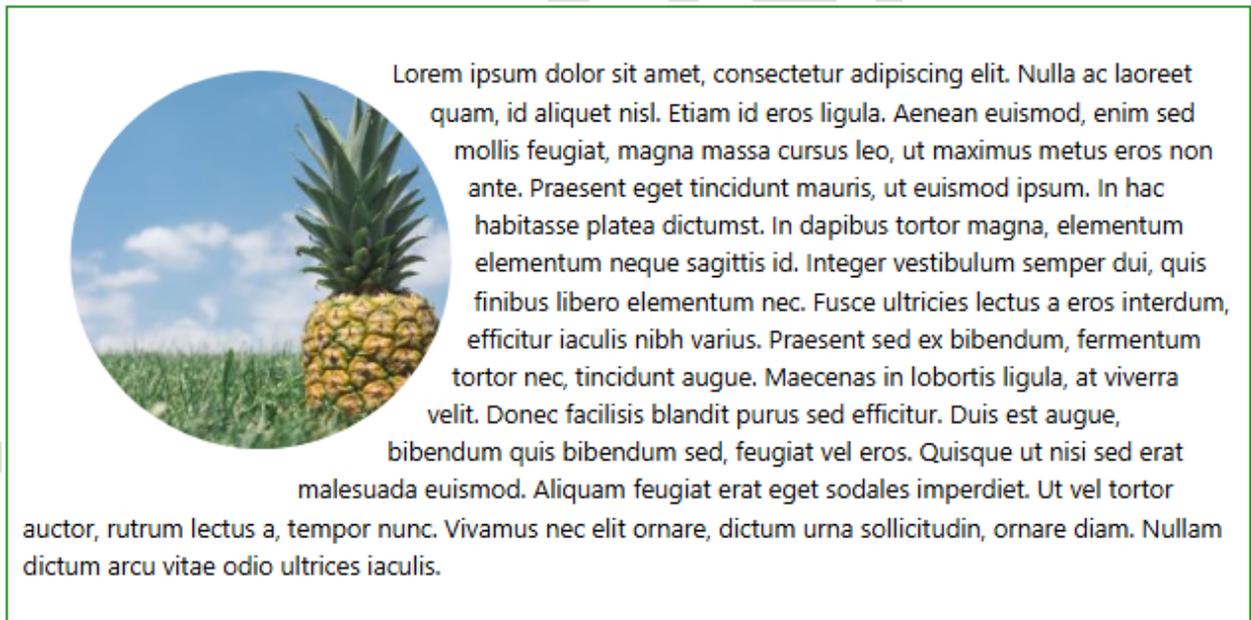
```
img {  
  clip-path: circle(50% at right);  
}
```

CSS shape-outside and circle()

`shape-outside` property inline content ko wrap karne ke liye ek shape define karne deti hai.

`circle()` function ek circle define karta hai radius aur position ke saath.

Yahaan hum image ko 40% radius ke circle mein clip karte hain, aur `shape-outside` ko 45% radius ke circle par set karte hain (text ko shape dene ke liye):



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

Use of circle(), clip-path and shape-outside:

```
img {  
  float: left;  
  clip-path: circle(40%);  
  shape-outside: circle(45%);  
}
```

CSS clip-path and ellipse()

clip-path property ek element ko basic shape par clip karne deti hai.

ellipse() function ellipse define karta hai do radii x aur y ke saath.

Yahaan hum image ko 50% radius x aur 35% radius y wali ellipse mein clip karte hain:



Example

Clip an image to an ellipse with 50% radius x and 35% radius y:

```
img {  
  clip-path: ellipse(50% 35%);  
}
```

Hum ellipse ka center bhi specify kar sakte hain. Yeh value length, percentage, left, right, top, ya bottom ho sakti hai. Default center hota hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Yahaan hum image ko ellipse ke 50% x aur 35% y radii ke saath clip karte hain aur ellipse ka center right par rakhte hain:



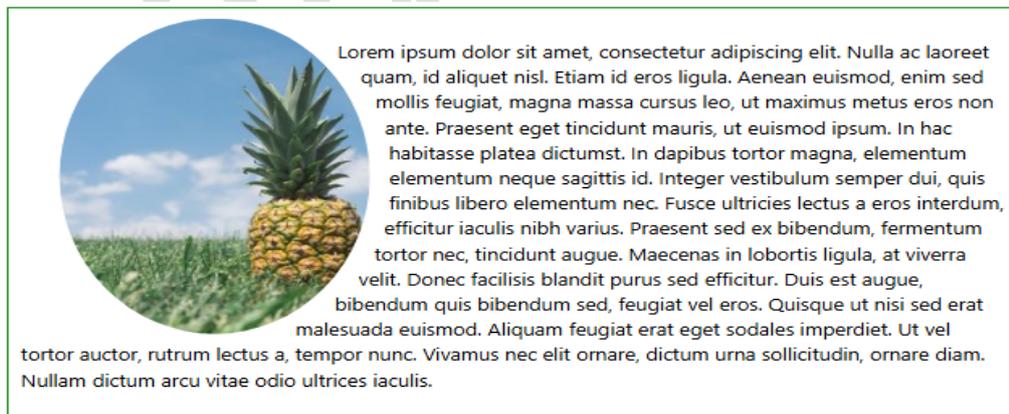
Example

Clip an image to an ellipse with 50% radius x and 35% radius y, and position the center of the ellipse to the right:

```
img {  
  clip-path: ellipse(50% 35% at right);  
}
```

CSS shape-outside and ellipse()

Yahaan hum image ko ellipse ke 40% radius x aur 50% radius y ke saath clip karte hain, aur shape-outside ko ellipse ke 45% radius x aur 50% radius y par set karte hain (text ko shape dene ke liye):



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example

Use of ellipse(), clip-path and shape-outside:

```
img {  
  float: left;  
  clip-path: ellipse(40% 50%);  
  shape-outside: ellipse(45% 50%);  
}
```

CSS polygon() Function

polygon() function ek polygon define karta hai.

Yeh function un points ko contain karta hai jo polygon ko define karte hain. Values length ya percentage ho sakti hain. Har point x aur y coordinates ka pair hota hai.

0 0 left top corner hota hai, aur 100% 100% right bottom corner.

polygon() function clip-path aur shape-outside properties ke andar use hota hai.

Yahaan hum image ko polygon mein clip kar rahe hain:



Example

Clip an image to a polygon:

```
img {  
  clip-path: polygon(50% 0%, 100% 50%, 50% 100%, 0% 50%); }
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS object-fit Property

CSS `object-fit` property ka use hota hai yeh specify karne ke liye ki `` ya `<video>` ko kaise resize kiya jaye unke container mein fit hone ke liye.

Yeh property kuch values le sakti hai:

- **fill** - Yeh default hota hai. Aspect ratio ko preserve nahi karta. Image ko container mein fill karne ke liye resize kiya jata hai (image ko stretch ya squeeze kiya ja sakta hai).
- **cover** - Aspect ratio ko preserve karta hai, aur image container ko fill karti hai. Agar zarurat ho toh overflow content cut ho jata hai.
- **contain** - Aspect ratio ko preserve karta hai, aur image ko container ke andar fit karta hai, bina cut kiye. Agar zarurat ho toh empty space chhoda jata hai.
- **none** - Image ko resize nahi kiya jata.
- **scale-down** - Image ko smallest version mein scale kiya jata hai, jo `none` ya `contain` ke comparison mein smallest ho.

object-fit: fill; Ka Use

`object-fit: fill;` value aspect ratio ko preserve nahi karti, aur image ko container mein fill karne ke liye resize karti hai (image ko stretch ya squeeze kar diya jata hai):



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:

```
.image-container {  
  width: 200px;  
  height: 300px;  
  border: 1px solid black;  
  margin-bottom: 25px;  
}  
  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: fill;  
}
```

object-fit: cover; Ka Use

`object-fit: cover;` value aspect ratio ko preserve karti hai, aur image container ko fill karti hai. Agar zarurat ho toh image clip ho sakti hai:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:

```
.image-container {  
  width: 200px;  
  height: 300px;  
  border: 1px solid black;  
  margin-bottom: 25px;  
}  
  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: cover;  
}
```

object-fit: contain; Ka Use

object-fit: contain; value aspect ratio ko preserve karti hai, aur image ko container ke andar fit karti hai, bina cut kiye. Agar zarurat ho toh space chhoda jata hai:



LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:

```
.image-container {  
  width: 200px;  
  height: 300px;  
  border: 1px solid black;  
  margin-bottom: 25px;  
}  
  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: contain;  
}
```

object-fit: none; Ka Use

object-fit: none; value image ko resize ya scale nahi karti:



Example:

```
.image-container {  
  width: 200px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
height: 300px;  
border: 1px solid black;  
margin-bottom: 25px;  
}
```

```
.image-container img {  
width: 100%;  
height: 100%;  
object-fit: none;  
}
```

object-fit: scale-down; Ka Use

object-fit: scale-down; value image ko smallest version mein scale karti hai, jo none ya contain ke comparison mein smallest ho:



Example:

```
.image-container {  
width: 200px;  
height: 300px;  
border: 1px solid black;  
margin-bottom: 25px;  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
}  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: scale-down;  
}
```

Ek Aur Example:

Yahan par humare paas do images hain aur hum chahte hain ki yeh 50% browser window ki width aur 100% container ki height ko fill karein.

Agar hum `object-fit` ka use nahi karte hain, toh jab hum browser window ko resize karenge, images ka aspect ratio destroy ho jayega:

Example:



Agar hum `object-fit: cover;` ka use karte hain, toh jab hum browser window ko resize karenge, image ka aspect ratio preserve rahega:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Example:



CSS object-position Property

CSS object-position property ko object-fit ke saath use kiya jata hai taaki `` ya `<video>` ko apne container ke andar x/y coordinates ke through position kiya ja sake.

Pehla value **x-axis** ko control karta hai aur dusra value **y-axis** ko. Yeh value string ho sakti hai (left, center, right), ya number ho sakta hai (px ya % mein). Negative values bhi allowed hain.

Using the object-position Property

Agar image ka jo part dikh raha hai woh woh part nahi hai jo hum dikhana chahte hain, toh usko position karne ke liye hum object-position property ka use karenge.

Yahan hum image ko aise position kar rahe hain ki purana sundar building center mein aaye:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
.image-container {  
  width: 200px;  
  height: 300px;  
  border: 1px solid black;  
}  
  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: cover;  
  object-position: 80% 100%;  
}
```

Ab yahan hum `object-position` property ka use karke image ko aise position karenge ki famous **Eiffel Tower** center mein aa jaye:

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

```
.image-container {  
  width: 200px;  
  height: 300px;  
  border: 1px solid black;  
}  
  
.image-container img {  
  width: 100%;  
  height: 100%;  
  object-fit: cover;  
  object-position: 15% 100%;  
}
```

CSS Masking

The CSS mask-image Property

CSS masking ka use hum tab karte hain jab hume kisi element ke upar ek mask layer lagani hoti hai, jisse element ke kuch portions partially ya fully hide ho jate hain.

CSS `mask-image` property specify karti hai ki kaunsa mask layer image use hoga.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Mask layer image **PNG image, SVG image, CSS gradient**, ya **SVG <mask> element** ho sakta hai.

Use a PNG Image as the Mask Layer

PNG image ko mask layer ke roop mein use karne ke liye, `url()` value ka use karke mask layer image ko pass kiya jata hai.

Mask image mein transparent ya semi-transparent areas honi chahiye. **Black color fully transparent** indicate karta hai.

Example

Source code yeh hai:

```
.mask1 {  
  -webkit-mask-image: url(picture.png);  
  mask-image: url(picture.png);  
  mask-repeat: no-repeat;  
}
```

`mask-image` property specify karti hai ki kaunsi image mask layer ke roop mein element par use hogi.

`mask-repeat` property batati hai ki mask image repeat hogi ya nahi.

`no-repeat` ka matlab hai mask image **repeat nahi hogi** (image sirf ek baar dikhegi).

Repeat the Mask Layer Image

Agar hum `mask-repeat` property ko omit kar dein, toh mask image Cinque Terre wali image par poore area mein repeat hogi:

Example

```
.mask1 {  
  -webkit-mask-image: url(w3logo.png);
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
mask-image: url(w3logo.png);
```

```
}
```

Position the Mask Layer Image

`mask-position` property mask image ka starting position set karti hai (mask position area ke relative).

Default mein mask image element ke **top-left corner** mein place hoti hai aur vertically & horizontally repeat hoti hai.

Yahan hum mask image ko **center** mein position karte hain:

Example

Mask layer image ko position karein:

```
.mask1 {  
  -webkit-mask-image: url(w3logo.png);  
  mask-image: url(w3logo.png);  
  mask-repeat: no-repeat;  
  mask-position: center;  
}
```

CSS Gradient Mask Layers

CSS Gradient Mask Layers

CSS gradients ko bhi mask layer image ke roop mein use kiya ja sakta hai.

Linear Gradient Mask Layer

Yahan hum apni image ke liye linear gradient mask layer use kar rahe hain.

Yeh linear gradient **top (black)** se **bottom (transparent)** tak jata hai:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

Linear gradient ko mask layer ke roop mein use karein:

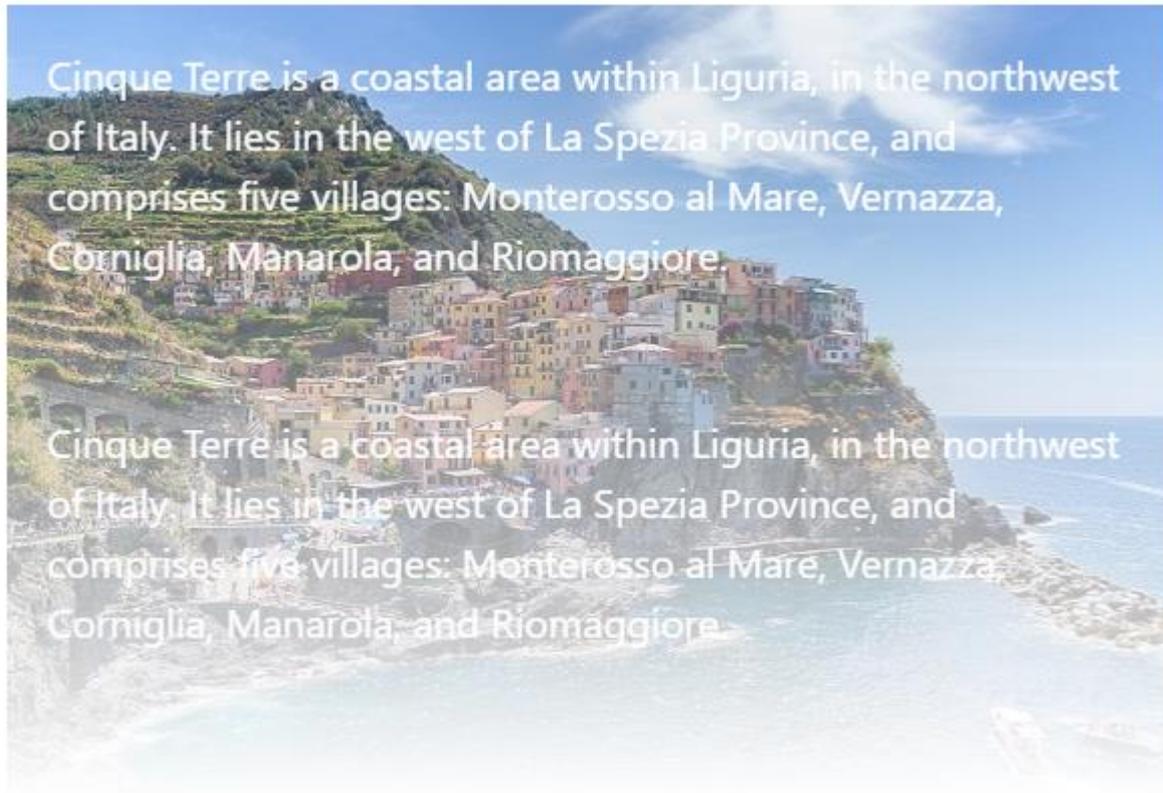
```
.mask1 {  
  -webkit-mask-image: linear-gradient(black, transparent);  
  mask-image: linear-gradient(black, transparent);  
}
```

Yahan hum linear gradient ko text masking ke saath mask layer ke roop mein use kar rahe hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

Linear gradient + text masking:

```
.mask1 {  
  max-width: 600px;  
  height: 400px;  
  background: url(img_5terre.jpg) no-repeat;  
  -webkit-mask-image: linear-gradient(black, transparent);  
  mask-image: linear-gradient (black, transparent);  
}
```

Radial Gradient Mask Layer - Circle

Yahan hum radial gradient (circle shape) ko mask layer ke roop mein use kar rahe hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

Circle-shaped radial gradient mask layer:

```
.mask2 {  
  -webkit-mask-image: radial-gradient(circle, black 50%, rgba(0, 0, 0, 0.5) 50%);  
  mask-image: radial-gradient(circle, black 50%, rgba(0, 0, 0, 0.5) 50%);  
}
```

Radial Gradient Mask Layer - Ellipse

Yahan hum radial gradient (ellipse shape) ko mask layer ke roop mein use kar rahe hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

Ellipse-shaped radial gradient mask layer:

```
.mask3 {  
  -webkit-mask-image: radial-gradient(ellipse, black 50%, rgba(0, 0, 0,  
0.5) 50%);  
  mask-image: radial-gradient(ellipse, black 50%, rgba(0, 0, 0, 0.5)  
50%);  
}
```

Conic Gradient Mask Layer

Yahan hum conic gradient ko mask layer ke roop mein use kar rahe hain:

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

Use a conic gradient as a mask layer:

```
.mask3 {  
  -webkit-mask-image: conic-gradient(black 0deg, transparent 360deg);  
  mask-image: conic-gradient(black 0deg, transparent 360deg);  
}
```

CSS SVG Mask Layers

CSS SVG Mask Layers

SVG `<mask>` element ka use karke hum kisi image par mask apply kar sakte hain.

Yahan hum SVG `<mask>` element ka use karke image ke liye different mask layers banayenge.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

SVG Mask Layer - Circle

SVG `<circle>` element ka use circle banane ke liye hota hai.



Example

An SVG mask layer (formed as a circle):

```
<svg width="600" height="400" xmlns="http://www.w3.org/2000/svg">  
  <mask id="svgmask1">  
    <circle r="150" cx="200" cy="200" fill="#ffffff" />  
  </mask>  
  <image xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="img_5sterre.jpg" mask="url(#svgmask1)"></image>  
</svg>
```

SVG Mask Layer - Ellipse

SVG `<ellipse>` element ka use ellipse shape banane ke liye hota hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

An SVG mask layer (formed as an ellipse):

```
<svg width="600" height="400" xmlns="http://www.w3.org/2000/svg">
  <mask id="svgmask1">
    <ellipse cx="220" cy="150" rx="200" ry="100" fill="#ffffff" />
  </mask>
  <image xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="img_5te
rre.jpg" mask="url(#svgmask1)"></image>
</svg>
```

SVG Mask Layer - Triangle

SVG `<polygon>` element ka use kam se kam teen sides wale shapes banane ke liye hota hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

An SVG mask layer (formed as a triangle):

```
<svg width="600" height="400" xmlns="http://www.w3.org/2000/svg">  
  <mask id="svgmask1">  
    <polygon fill="#ffffff" points="200 0, 400 400, 0 400"></polygon>  
  </mask>  
  <image xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="img_5terre.jpg" mask="url(#svgmask1)"></image>  
</svg>
```

SVG Mask - Star

SVG `<polygon>` element ka use star shape banane ke liye bhi kiya ja sakta hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

An SVG mask layer (formed as a star):

```
<svg width="600" height="400" xmlns="http://www.w3.org/2000/svg">
  <mask id="svgmask1">
    <polygon fill="#ffffff" points="100,10 40,198 190,78 10,78
160,198"></polygon>
  </mask>
  <image xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="img_5te
rre.jpg" mask="url(#svgmask1)"></image>
</svg>
```

SVG Mask - Multiple Circles

Yahan hum teen circles define karte hain jinke x aur y positions alag hain.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



Example

An SVG mask layer (formed as circles):

```
<svg width="600" height="400" xmlns="http://www.w3.org/2000/svg">
  <mask id="svgmask1">
    <circle fill="#ffffff" cx="75" cy="75" r="75"></circle>
    <circle fill="#ffffff" cx="80" cy="260" r="75"></circle>
    <circle fill="#ffffff" cx="270" cy="160" r="75"></circle>
  </mask>
  <image xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="img_5te
rre.jpg" mask="url(#svgmask1)"></image>
</svg>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Styling Buttons

Property	Description
background-color	Button ka background color set karta hai
color	Button text ka color set karta hai
border	Button ke border ka style, width aur color define karta hai
padding	Text aur border ke beech ki space define karta hai
border-radius	Rounded corners add karta hai
box-shadow	Button ke neeche shadow add karta hai
text-align	Text ko center ya left/right align karta hai
font-size	Button ke text ka size define karta hai
text-decoration	<a> buttons ke underline remove karta hai
cursor	Hover par cursor change karta hai (pointer etc.)

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: #04AA6D;
```

```
border: none;
```

```
color: white;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
}
```

```
</style>
```

```
</head>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<body>

<h2>CSS Basic Button Styling</h2>

<p>Default button with no styling:</p>

<button>Click me</button>

<p>An a element styled as a button:</p>

Click me

<p>A button element:</p>

<button class="button">Click me</button>

<p>An input element of type button:</p>

<input type="button" class="button" value="Click me">

</body>

</html>

Changing Button Colors with CSS

1. Background Color → background-color property se set hoti hai
2. Text Color → color property se set hoti hai
3. Hover Color → Button hover karne par :hover pseudo-class se change kar sakte hain

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
border: none;
```

```
color: white;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
}
```

```
.button1 {background-color: #04AA6D;} /* Green */
```

```
.button2 {background-color: #008CBA;} /* Blue */
```

```
.button3 {background-color: #f44336;} /* Red */
```

```
.button4 {background-color: #e7e7e7; color: black;} /* Gray */
```

```
.button5 {background-color: #555555;} /* Black */
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Button Colors</h2>
```

```
<p>Set the background color of a button with the background-color property, and set the text color with the color property:</p>
```

```
<button class="button button1">Green</button>
```

```
<button class="button button2">Blue</button>
```

```
<button class="button button3">Red</button>
```

```
<button class="button button4">Gray</button>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<button class="button button5">Black</button>
```

```
</body>
```

```
</html>
```

Changing Button Sizes with CSS

Button ki size mainly 2 cheezon se control hoti hai:

1. Padding → Button ka text ke around space define karta hai
2. Font-size → Button ke text ka size define karta hai

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: #04AA6D;
```

```
border: none;
```

```
color: white;
```

```
text-align: center;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
}
```

```
.button1 {padding: 10px 24px;}
```

```
.button2 {padding: 12px 28px;}
```

```
.button3 {padding: 14px 40px;}
```

```
.button4 {padding: 32px 16px;}
```

```
.button5 {padding: 16px;}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Button Padding</h2>
```

```
<p>Set the padding in a button with the padding property:</p>
```

```
<button class="button button1">10px 24px</button>
```

```
<button class="button button2">12px 28px</button>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<button class="button button3">14px 40px</button>
```

```
<button class="button button4">32px 16px</button>
```

```
<button class="button button5">16px</button>
```

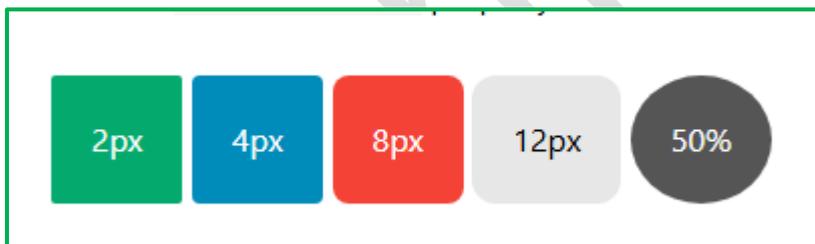
```
</body>
```

```
</html>
```

CSS Rounded Buttons

Rounded buttons border-radius property se create hote hain.

- Ye buttons ko modern aur soft look dete hain.
- Aap chhoti rounding se leke fully circular buttons tak bana sakte ho.



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<style>

.button {

background-color: #04AA6D;

border: none;

color: white;

padding: 20px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

.button1 {border-radius: 2px;}

.button2 {border-radius: 4px;}

.button3 {border-radius: 8px;}

.button4 {border-radius: 12px;}

.button5 {border-radius: 50%;}

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Rounded Buttons</h2
```

```
<p>Add rounded corners to a button with the border-radius property:</p
```

```
<button class="button button1">2px</button>
```

```
<button class="button button2">4px</button>
```

```
<button class="button button3">8px</button>
```

```
<button class="button button4">12px</button>
```

```
<button class="button button5">50%</button>
```

```
</body>
```

```
</html>
```

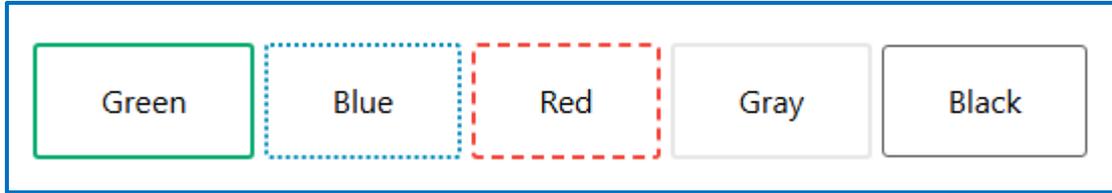
CSS Button Borders

- CSS me button borders border property se control hote hain.
- Border ka width, style, color aur radius customize kiya ja sakta hai.
- Buttons ke look ko solid, outline, dashed etc. me change kar sakte ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: white;
```

```
border: none;
```

```
color: black;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
}
```

```
.button1 {border: 2px solid #04AA6D;}
```

```
.button2 {border: 2px dotted #008CBA;}
```

```
.button3 {border: 2px dashed #f44336;}
```

```
.button4 {border: 1px solid #e7e7e7;}
```

```
.button5 {border: 1px solid #555555;}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Colored Button Borders</h2>
```

```
<p>Use the border property to add a border to the button:</p>
```

```
<button class="button button1">Green</button>
```

```
<button class="button button2">Blue</button>
```

```
<button class="button button3">Red</button>
```

```
<button class="button button4">Gray</button>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<button class="button button5">Black</button>
```

```
</body>
```

```
</html>
```

CSS Hoverable Buttons

- Hoverable buttons wo buttons hain jo mouse ke upar aane par style change karte hain.
- CSS me ye :hover pseudo-class se create hote hain.
- Hover effects se user interaction enhance hoti hai aur website modern lagti hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: white;
```

```
border: none;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

color: black;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

transition-duration: 0.4s;

cursor: pointer;

}

.button1 {border: 2px solid #04AA6D;}

.button2 {border: 2px solid #008CBA;}

.button3 {border: 2px solid #f44336;}

.button4 {border: 2px solid #e7e7e7;}

.button5 {border: 2px solid #555555;}

.button1:hover {

background-color: #04AA6D;

color: white;

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.button2:hover {
```

```
background-color: #008CBA;
```

```
color: white;
```

```
}
```

```
.button3:hover {
```

```
background-color: #f44336;
```

```
color: white;
```

```
}
```

```
.button4:hover {background-color: #e7e7e7;}
```

```
.button5:hover {
```

```
background-color: #555555;
```

```
color: white;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body
```

```
<h2>Hoverable Buttons</h2
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>Use the :hover selector to change the style of the button when you move the mouse over it.</p>

<p>Tip: Use the transition-duration property to determine the speed of the "hover" effect:</p>

```
<button class="button button1">Green</button>
```

```
<button class="button button2">Blue</button>
```

```
<button class="button button3">Red</button>
```

```
<button class="button button4">Gray</button>
```

```
<button class="button button5">Black</button>
```

```
</body>
```

```
</html>
```

CSS Buttons With Shadow

- CSS box-shadow property se buttons ke neeche shadow add kiya jata hai.
- Shadow se buttons 3D effect lagte hain aur modern design me use hote hain.
- Shadow hover par bhi enhanced effect de sakte hain

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<style>

.button {

background-color: #04AA6D;

border: none;

color: white;

padding: 15px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

transition-duration: 0.4s;

}

.button1 {box-shadow: 0 8px 16px 0 rgba(0,0,0,0.6);}

.button2:hover {box-shadow: 0 8px 16px 0 rgba(0,0,0,0.6);}

</style>

</head>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<body>
```

```
<h2>Shadow Buttons</h2>
```

```
<p>Use the box-shadow property to add shadows to buttons:</p>
```

```
<button class="button button1">Shadow Button</button>
```

```
<button class="button button2">Shadow on Hover</button>
```

```
</body>
```

```
</html>
```

CSS Disabled Button

- Disabled buttons user interaction allow nahi karte (click nahi hota).
- HTML me disabled attribute use hota hai.
- CSS se disabled buttons ka look customize kar sakte ho (greyed out, opacity, cursor).

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.button {
```

```
background-color: #04AA6D;
```

```
border: none;
```

```
color: white;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
}
```

```
.disabledbtn {
```

```
opacity: 0.6;
```

```
cursor: not-allowed;
```

```
}
```

```
</style>
```

```
</head>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<body>
```

```
<h2>Disabled Button</h2>
```

```
<p>Use the opacity and the cursor properties to make a button look disabled:</p>
```

```
<button class="button disabledbtn">Disabled Button</button>
```

```
</body>
```

```
</html>
```

CSS Button Width

- CSS me button width define karne ke liye width property use hoti hai.
- Width fixed (px) ya relative (% , auto, vw) ho sakti hai.
- Proper width buttons ko responsive aur uniform banata hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: #04AA6D;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

border: none;

color: white;

padding: 15px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

}

.button1 {width: 250px;}

.button2 {width: 50%;}

.button3 {width: 100%;}

</style>

</head>

<body

<h2>Button Width</h2>

<p>Use the width property to set the width of a button.</p>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>Tip: Use pixels if you want to set a fixed width and use percent for responsive buttons (e.g. 50% of its parent element). Resize the browser window to see the effect.</p>

```
<button class="button button1">250px</button><br>
```

```
<button class="button button2">50%</button><br>
```

```
<button class="button button3">100%</button>
```

```
</body>
```

```
</html>
```

CSS Horizontal Button Group

- CSS me button width define karne ke liye width property use hoti hai.
- Width fixed (px) ya relative (% , auto, vw) ho sakti hai.
- Proper width buttons ko responsive aur uniform banata hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.btn-group {  
  
display: flex;  
  
flex-wrap: wrap;  
  
}  
  
.button {  
  
background-color: #04AA6D;  
  
border: none;  
  
color: white;  
  
padding: 15px 32px;  
  
text-align: center;  
  
text-decoration: none;  
  
font-size: 16px;  
  
cursor: pointer;  
  
}  
  
.btn-group .button:hover {  
  
background-color: dodgerblue;  
  
}  
  
</style>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</head>

<body

<h2>Create a Button Group</h2>

<p>Wrap the buttons in a div element, and add display:flex to the div element:</p>

<div class="btn-group">

<button class="button">Button</button>

<button class="button">Button</button>

<button class="button">Button</button>

<button class="button">Button</button>

</div>

<p>Resize the screen to see what happens on small screens.</p>

</body>

</html>

Bordered Button Group

Button group me multiple buttons ek line me side-by-side arrange hote hain.

Borders aur spacing properly set karne se group ek cohesive look deta hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Commonly used for toolbar, filters, or option selectors.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.btn-group {
```

```
display: flex;
```

```
flex-wrap: wrap;
```

```
}
```

```
.button {
```

```
background-color: #04AA6D;
```

```
border: 1px solid green;
```

```
color: white;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
font-size: 16px;
```

```
cursor: pointer;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
.btn-group .button:hover {
```

```
background-color: dodgerblue;
```

```
.btn-group .button:not(:last-child) {
```

```
border-right: none; /* Prevent double borders */
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Bordered Button Group</h2>
```

```
<p>Add borders to create a bordered button group:</p>
```

```
<div class="btn-group">
```

```
<button class="button">Button</button>
```

```
<button class="button">Button</button>
```

```
<button class="button">Button</button>
```

```
<button class="button">Button</button>
```

```
</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</body>

</html>

Vertical Button Group

Vertical button group me buttons upar se neeche stacked hote hain.

- Commonly used for sidebars, menus, or option lists.
- Borders aur spacing set karne se clean and organized look milta hai

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.btn-group {
```

```
  display: flex;
```

```
  flex-direction: column;
```

```
}
```

```
.button {
```

```
  background-color: #04AA6D;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

width: 150px;

border: 1px solid green;

color: white;

padding: 15px 32px;

text-align: center;

text-decoration: none;

font-size: 16px;

cursor: pointer;

}

.btn-group .button:hover {

background-color: dodgerblue;

.btn-group .button:not(:last-child) {

border-bottom: none; /* Prevent double borders */

}

</style>

</head>

<body>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<h2>Vertical Button Group</h2>

```
<div class="btn-group">  
  
  <button class="button">Button</button>  
  
  <button class="button">Button</button>  
  
  <button class="button">Button</button>  
  
  <button class="button">Button</button>  
  
</div>  
  
</body>  
  
</html>
```

Animated Buttons

Animated buttons me hover, click ya load par animation hota hai.

- CSS me ye transition, transform, keyframes ke through banaya jata hai.
- Animation se buttons interactive aur modern lagte hain.

```
<!DOCTYPE html>  
  
<html>  
  
<head>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<style>

```
.button {
```

```
    position: relative;
```

```
    background-color: #04AA6D;
```

```
    border: none;
```

```
    font-size: 24px;
```

```
    color: #FFFFFF;
```

```
    padding: 20px;
```

```
    width: 200px;
```

```
    text-align: center;
```

```
    transition-duration: 0.4s;
```

```
    text-decoration: none;
```

```
    overflow: hidden;
```

```
    cursor: pointer;
```

```
}
```

```
.button:after {
```

```
    content: "";
```

```
    background: #f1f1f1;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
display: block;
```

```
position: absolute;
```

```
padding-top: 300%;
```

```
padding-left: 350%;
```

```
margin-left: -20px;
```

```
margin-top: -120%;
```

```
opacity: 0;
```

```
transition: all 0.8s
```

```
}
```

```
.button:active:after {
```

```
padding: 0;
```

```
margin: 0;
```

```
opacity: 1;
```

```
transition: 0s
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<h2>Animated Button - Ripple Effect</h2>

<button class="button">Click Me</button>

</body>

</html>

Pagination

Pagination ka matlab hota hai content ko pages me divide karna, taki ek hi page par bahut saara data na dikhe.

Example: Google search results me 10 results per page, aur neeche “Next” aur page numbers” hote hain.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.pagination {
```

```
display: flex;
```

```
justify-content: center;
```

```
list-style: none; /* remove list bullets */
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
padding: 0px;
```

```
}
```

```
.pagination li a {
```

```
display: block; /* let links fill the list item */
```

```
padding: 8px 12px;
```

```
text-decoration: none;
```

```
border: 1px solid gray;
```

```
color: black;
```

```
margin: 0 4px;
```

```
border-radius: 5px; /* add rounded borders */
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>A Simple Pagination</h2>
```

```
<ul class="pagination">
```

```
<li><a href="#">&laquo;</a></li>
```

```
<li><a href="#">1</a></li>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

2

3

4

5

»

</body>

</html>

Pagination With an Active Class

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.pagination {
```

```
display: flex;
```

```
justify-content: center;
```

```
list-style: none;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
padding: 0px;
```

```
}
```

```
.pagination li a {
```

```
display: block;
```

```
padding: 8px 12px;
```

```
text-decoration: none;
```

```
border: 1px solid gray;
```

```
color: black;
```

```
margin: 0 4px;
```

```
border-radius: 5px;
```

```
}
```

```
.pagination li a.active {
```

```
background-color: #4CAF50;
```

```
color: white;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<h2>Pagination with an Active State</h2>

```
<ul class="pagination">
```

```
<li><a href="#">&laquo;</a></li>
```

```
<li><a href="#">1</a></li>
```

```
<li><a href="#">2</a></li>
```

```
<li><a href="#">3</a></li>
```

```
<li><a href="#">4</a></li>
```

```
<li><a class="active" href="#">5</a></li>
```

```
<li><a href="#">&raquo;</a></li>
```

```
</ul>
```

```
</body>
```

```
</html>
```

Pagination With a Disabled Class

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.pagination {
```

```
display: flex;
```

```
justify-content: center;
```

```
list-style: none;
```

```
padding: 0px;
```

```
}
```

```
.pagination li a {
```

```
display: block;
```

```
padding: 8px 12px;
```

```
text-decoration: none;
```

```
border: 1px solid gray;
```

```
color: black;
```

```
margin: 0 4px;
```

```
border-radius: 5px;
```

```
}
```

```
.pagination li a.active {
```

```
background-color: #4CAF50;
```

```
color: white;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.pagination li a.disabled {
```

```
color: #dddddd;
```

```
cursor: not-allowed;
```

```
pointer-events: none;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Pagination with a Disabled State</h2>
```

```
<ul class="pagination">
```

```
<li><a href="#">&laquo;</a></li>
```

```
<li><a href="#">1</a></li>
```

```
<li><a href="#">2</a></li>
```

```
<li><a href="#">3</a></li>
```

```
<li><a href="#">4</a></li>
```

```
<li><a class="active" href="#">5</a></li>
```

```
<li><a class="disabled" href="#">&raquo;</a></li>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</body>

</html>

Pagination with Hover Effect

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.pagination {
```

```
display: flex;
```

```
justify-content: center;
```

```
list-style: none;
```

```
padding: 0px;
```

```
}
```

```
.pagination li a {
```

```
display: block;
```

```
padding: 8px 12px;
```

```
text-decoration: none;
```

```
border: 1px solid gray;
```

```
color: black;
```

```
margin: 0 4px;
```

```
border-radius: 5px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
.pagination li a.active {
```

```
background-color: #4CAF50;
```

```
color: white;
```

```
}
```

```
.pagination li a:hover:not(.active) {
```

```
background-color: lightgray;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Pagination with Hover Effect</h2>
```

```
<ul class="pagination">
```

```
<li><a href="#">&laquo;</a></li>
```

```
<li><a href="#">1</a></li>
```

```
<li><a class="active" href="#">2</a></li>
```

```
<li><a href="#">3</a></li>
```

```
<li><a href="#">4</a></li>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

5

»

</body>

</html>

Transition Effect on Hover

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.pagination {
```

```
display: flex;
```

```
justify-content: center;
```

```
list-style: none;
```

```
padding: 0px;
```

```
}
```

```
.pagination li a {
```

```
display: block;
```

```
padding: 8px 12px;
```

```
text-decoration: none;
```

```
border: 1px solid gray;
```

```
color: black;
```

```
margin: 0 4px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
border-radius: 5px;
```

```
transition: background-color 1s;
```

```
}
```

```
.pagination li a.active {
```

```
background-color: #4CAF50;
```

```
color: white;
```

```
}
```

```
.pagination li a:hover:not(.active) {
```

```
background-color: lightgray;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Pagination with Transition Effect on Hover</h2>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<ul class="pagination">
```

```
<li><a href="#">&laquo;</a></li>
```

```
<li><a href="#">1</a></li>
```

```
<li><a class="active" href="#">2</a></li>
```

```
<li><a href="#">3</a></li>
```

```
<li><a href="#">4</a></li>
```

```
<li><a href="#">5</a></li>
```

```
<li><a href="#">&raquo;</a></li>
```

```
</ul>
```

```
</body>
```

```
</html>
```

Breadcrumb Pagination

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
ul.breadcrumb {  
  
padding: 8px;  
  
list-style: none;  
  
background-color: #eee;  
  
}  
  
ul.breadcrumb li {display: inline;}  
  
ul.breadcrumb li a {color: green;}  
  
  
ul.breadcrumb li+li:before {  
  
padding: 8px;  
  
color: black;  
  
content: "\00a0";  
  
}  
  
</style>  
  
</head>  
  
<body>  
  
<h2>Breadcrumb Pagination</h2>  
  
<ul class="breadcrumb">
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Home

Pictures

Summer 25

Italy

</body>

</html>

CSS Multiple Columns

CSS me multiple columns feature se aap content ko ek se zyada columns me split kar sakte ho, jaise newspaper ya magazine layout.

- Example: Agar aapke paas ek lamba paragraph hai, aap usko 2 ya 3 columns me divide kar sakte ho.

CSS Multi-columns Properties

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Property	Description	Example
column-count	Specify karta hai ki element ko kitne columns me divide karna hai	column-count: 3;
column-fill	Specify karta hai ki content columns me kaise fill ho (balance ya auto)	column-fill: balance;
column-gap	Columns ke beech ka gap set karta hai	column-gap: 20px;
column-rule	Shorthand property jo column-rule-width, column-rule-style, aur column-rule-color ko set karti hai	column-rule: 2px solid green;
column-rule-color	Columns ke beech line ka color set karta hai	column-rule-color: red;
column-rule-style	Columns ke beech line ka style set karta hai (solid, dashed, dotted)	column-rule-style: dashed;
column-rule-width	Columns ke beech line ki width set karta hai	column-rule-width: 3px;

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Property	Description	Example
column-span	Specify karta hai ki element kitne columns span kare (all ya none)	h2 { column-span: all; }
column-width	Ek suggested, optimal width set karta hai for each column	column-width: 200px;
columns	Shorthand property jo column-width aur column-count dono set karta hai	columns: 200px 3;

Column Count

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.newspaper {  
  column-count: 3;
```

```
}
```

```
</style>
```

```
</head>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<body>
```

```
<h1>Create Multiple Columns</h1>
```

```
<div class="newspaper">
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum.

```
</div>
```

```
</body>
```

```
</html>
```

CSS Column Gap

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<style>
```

```
.newspaper {
```

```
  column-count: 3;
```

```
  column-gap: 40px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Specify the Gap Between Columns</h1>
```

```
<div class="newspaper">
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum.

```
</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</body>

</html>

CSS Column Rule

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.newspaper {
```

```
  column-count: 3;
```

```
  column-gap: 40px;
```

```
  column-rule-style: solid;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body
```

```
<h1>Add a Rule Between the Columns</h1>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<div class="newspaper">

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum.

</div>

</body>

</html>

CSS Column Span

<!DOCTYPE html>

<html>

<head>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<style>

.newspaper {

column-count: 3;

column-gap: 40px;

column-rule: 1px solid lightblue;

}

h2 {

column-span: all;

text-align: center;

}

</style>

</head>

<body>

<div class="newspaper">

<h2>Lorem Ipsum Dolor Sit Amet</h2>

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum.

```
</div>
```

```
</body>
```

```
</html>
```

CSS Column Width

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.newspaper {  
    column-width: 100px;  
}
```

```
</style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</head>

<body>

<h1>Specify The Column Width</h1>

<div class="newspaper">

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum.

</div>

</body>

</html>

CSS User Interface

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS User Interface properties allow karti hain developers ko scrollbars, outlines, sizing, interactions, cursors, display aur input controls ko style karne ke liye. Ye mostly user interaction aur visual layout improve karte hain.

CSS Resize

- resize property specify karti hai ki user kisi element ko resize kar sakta hai ya nahi, aur agar kar sakta hai toh kis direction me.
- Ye usually textarea ya kisi resizable box me use hoti hai.

Value	Description
horizontal	User element ka width change kar sakta hai (left-right)
vertical	User element ka height change kar sakta hai (up-down)
both	User element ko vertically aur horizontally dono resize kar sakta hai
none	User element ko resize nahi kar sakta

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<style>
```

```
#test {
```

```
  resize: none;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>The resize Property</h1>
```

```
<p>In many browsers, textarea elements are resizable by default. In this example,  
we have used the resize property to disable the resizability:</p>
```

```
<textarea id="test">Textarea - Not resizable</textarea>
```

```
<br><br>
```

```
<textarea>Textarea - Resizable (default)</textarea>
```

```
</body>
```

```
</html>
```

CSS Outline Offset

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- outline-offset property specify karti hai ki element ke outline ko element ke border se kitna door dikhana hai.
- Positive value → outline element se door ho jata hai
- Negative value → outline element ke andar ki taraf shift ho jata hai

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
div.ex1 {
```

```
margin: 20px;
```

```
border: 1px solid black;
```

```
outline: 4px solid red;
```

```
outline-offset: 15px;
```

```
}
```

```
div.ex2 {
```

```
margin: 10px;
```

```
border: 1px solid black;
```

```
outline: 5px dashed blue;
```

```
outline-offset: 5px;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

</style>

</head>

<body>

<h1>The outline-offset Property</h1>

<div class="ex1">This div has a 4 pixels solid red outline 15 pixels outside the border edge.</div>

<div class="ex2">This div has a 5 pixels dashed blue outline 5 pixels outside the border edge.</div>

</body>

</html>

CSS Variables

- CSS variables ek tarah ke custom properties hote hain jinke values aap reusable bana sakte ho.
- Variables ko define karte waqt double hyphen -- use karte hain.
- var() function ke through aap in variables ka value kisi bhi CSS property me use kar sakte ho.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS Declare a Variable

- CSS variable ek custom property hoti hai jiska value aap reuse kar sakte ho.
- Variable ka naam double hyphen -- se start hota hai.
- Value ko access karne ke liye var() function use hota hai.

```
<!DOCTYPE html>

<html>

<head>

<style>

:root {

  --primary-bg-color: #8FBC8F;

  --primary-color: #FFFAF0;

}

body {

  background-color: var(--primary-bg-color);

}

.container {
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
color: var(--primary-bg-color);
```

```
background-color: var(--primary-color);
```

```
padding: 15px;
```

```
}
```

```
.container h2 {
```

```
border-bottom: 2px solid var(--primary-bg-color);
```

```
}
```

```
.container .note {
```

```
border: 1px solid var(--primary-bg-color);
```

```
padding: 10px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Using the var() Function</h1>
```

```
<div class="container">
```

```
<h2>Lorem Ipsum</h2>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit.</p>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit.</p>

<p class="note">This is a note!</p>

</div>

</body>

</html>

CSS Variable Override

- CSS variables ki scope aur cascading hoti hai.
- Agar aap same variable ko kisi child element ya media query me dobara define karte ho, toh wo parent variable ko override kar deta hai.
- Isse aap dynamic aur responsive designs bana sakte ho.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
:root {
```

```
--primary-bg-color: #1e90ff;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
--primary-color: #ffffff;
```

```
}
```

```
body {
```

```
background-color: var(--primary-bg-color);
```

```
}
```

```
.container {
```

```
color: var(--primary-bg-color);
```

```
background-color: var(--primary-color);
```

```
padding: 15px;
```

```
}
```

```
.container h2 {
```

```
border-bottom: 2px solid var(--primary-bg-color);
```

```
}
```

```
.container .note {
```

```
--primary-bg-color: red; /* local variable will override global */
```

```
border: 1px solid var(--primary-color);
```

```
padding: 10px;
```

```
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</style>

</head>

<body

<h1>Override Global Variable With Local Variable</h1>

<div class="container">

<h2>Lorem Ipsum</h2>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit.</p>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit.</p>

<p class="note">This is a note!</p>

</div>

</body>

</html>

Change Variables With JavaScript

- CSS variables ko JS se dynamically change kar sakte ho.
- Ye variables DOM me accessible hote hain, usually <html> ya kisi element ke style me.
- JS me setProperty() method use hota hai

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
:root {
```

```
  --primary-bg-color: #1e90ff;
```

```
  --primary-color: #ffffff;
```

```
}
```

```
body {
```

```
  background-color: var(--primary-bg-color);
```

```
}
```

```
.container {
```

```
  color: var(--primary-bg-color);
```

```
  background-color: var(--primary-color);
```

```
  padding: 15px;
```

```
}
```

```
.container h2 {
```

```
  border-bottom: 2px solid var(--primary-bg-color);
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
.container .note {
```

```
border: 1px solid var(--primary-bg-color);
```

```
padding: 10px;
```

```
}
```

```
</style>
```

```
<script>
```

```
// Get the root element
```

```
var r = document.querySelector(':root');
```

```
// Create a function for getting a variable value
```

```
function myFunction_get() {
```

```
    // Get the styles (properties and values) for the root
```

```
    var rs = getComputedStyle(r);
```

```
    // Alert the value of the --primary-bg-color variable
```

```
    alert("The value of --primary-bg-color is: " + rs.getPropertyValue('--primary-bg-color'));
```

```
}
```

```
// Create a function for setting a variable value
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
function myFunction_set() {
```

```
    // Set the value of variable --primary-bg-color to another value (in this case  
    "green")
```

```
    r.style.setProperty('--primary-bg-color', 'green');
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1>Get and Change CSS Variable With JavaScript</h1>
```

```
<div class="container">
```

```
    <h2>Lorem Ipsum</h2>
```

```
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at  
erat pulvinar, at pulvinar felis blandit.</p>
```

```
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at  
erat pulvinar, at pulvinar felis blandit.</p>
```

```
    <p class="note">This is a note!</p>
```

```
</div>
```

```
<br>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<button type="button" onclick="myFunction_get()">Get Variable with  
JavaScript</button>
```

```
<button type="button" onclick="myFunction_set()">Change Variable with  
JavaScript</button>
```

```
</body>
```

```
</html>
```

CSS @property Rule

@property Rule kya hai?

- @property ek CSS at-rule hai jo custom properties (CSS variables) ke behavior ko define karta hai.
- Ye browser ko batata hai ki variable ka type kya hai, default value kya hai, aur interpolation kaise hoga.
- Ye mainly CSS Houdini & animations ke liye useful hai

Syntax of @property

```
@property --myColor {  
  syntax: "<color>";  
  inherits: true;  
  initial-value: lightgray;  
}
```

- All Computer Courses
 - English Language Courses
 - Brand Marketing & Custom Software Solution
 - Academic Tuition(All Subjects)
- Website: <https://learninghubshahabad.in>

Benefits of Using @property

1. **Data Type Checking** – Variable ka type specify karte ho (<color>, <length>, <number>), errors prevent karne ke liye.
2. **Default Value** – initial-value set kar ke browser ko fallback value milti hai agar invalid value assign ho.
3. **Inheritance Control** – inherits: true/false se decide karte ho ki variable parent se inherit ho ya nahi.
4. **Animatable Variables** – Typed variables easily **smooth animations** ke liye use ho sakte hain.
5. **Predictable Behavior** – CSS variable ka behavior consistent aur predictable hota hai across elements.

```
<!DOCTYPE html>

<html>

<head>

<style>

@property --startColor {

syntax: "<color>";

initial-value: #EADEDB;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

inherits: false;

}

@property --endColor {

 syntax: "<color>";

 initial-value: #BC70A4;

 inherits: false;

}

.ex1 {

 background: linear-gradient(var(--startColor), var(--endColor));

 animation: gradient 3s linear infinite;

}

@keyframes gradient {

 0%,

 100% {

 --startColor: #EAEDEB;

 --endColor: #BC70A4;

 }

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

50% {

--startColor: #BC70A4;

--endColor: #BFD641;

}

}

#grad1 {

height: 200px;

}

</style>

</head>

<body>

<h1>The @property Rule</h1>

<p>The @property rule is here used to animate a gradient:</p>

<div id="grad1" class="ex1"></div>

</body>

</html>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Box-Sizing

box-sizing property specify karti hai ki CSS width aur height calculate kaise hogi.

- Normally, width aur height me padding aur border include nahi hote, lekin box-sizing se aap control kar sakte ho.

```
<!DOCTYPE html>

<html>

<head>

<style>

* {

    box-sizing: border-box;

}

input, textarea {

    width: 100%;

}

</style>

</head>

<body>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<form action="/action_page.php">
```

```
First name:<br>
```

```
<input type="text" name="firstname" value="Mickey"><br>
```

```
Last name:<br>
```

```
<input type="text" name="lastname" value="Mouse"><br>
```

```
Comments:<br>
```

```
<textarea name="message" rows="5" cols="30">
```

```
</textarea>
```

```
<br><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
<p><strong>Tip:</strong> Try to remove the box-sizing property from the style element and look what happens.
```

```
Notice that the width of input, textarea, and submit button will go outside of the screen.</p>
```

```
</body>
```

```
</html>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Media Queries

- Media Queries allow karte hain ki aap different styles apply karo based on device features jaise screen width, height, orientation, resolution etc.
- Ye responsive design banane ke liye essential hai.

Media Query Syntax

```
@media [not] media-type and (media-feature: value) and (media-feature: value) {  
  /* CSS rules to apply */  
}
```

CSS Media Types

Value	Description
all	Sabhi media devices ke liye use hota hai (default).
print	Sirf print preview aur printing ke liye styles apply karta hai.
screen	Computers, tablets, smartphones ke screens ke liye styles apply karta hai.

CSS Media Features kya hai?

- Media Features specify karte hain device ki properties jaise width, height,

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

resolution, orientation.

- Ye media queries ke andar use hote hain taaki responsive styles apply kiye ja sake.

Value	Description
max-height	Viewport ka maximum height (scrollbar include ho sakta hai)
min-height	Viewport ka minimum height
height	Viewport ki height (scrollbar include ho sakta hai)
max-width	Viewport ka maximum width
min-width	Viewport ka minimum width
width	Viewport ki width (scrollbar include ho sakta hai)
orientation	Viewport ki orientation: landscape ya portrait
resolution	Screen resolution (e.g., 2dppx for Retina)
prefers-color-scheme	User ka preferred color scheme: light ya dark

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>

<html>

<head>

<style>

body {

    background-color: pink;

}

@media screen and (min-width: 480px) and (max-width: 768px) {

    body {

        background-color: lightgreen;

    }

}

</style>

</head>

<body>

<h1>Resize the browser window to see the effect!</h1
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

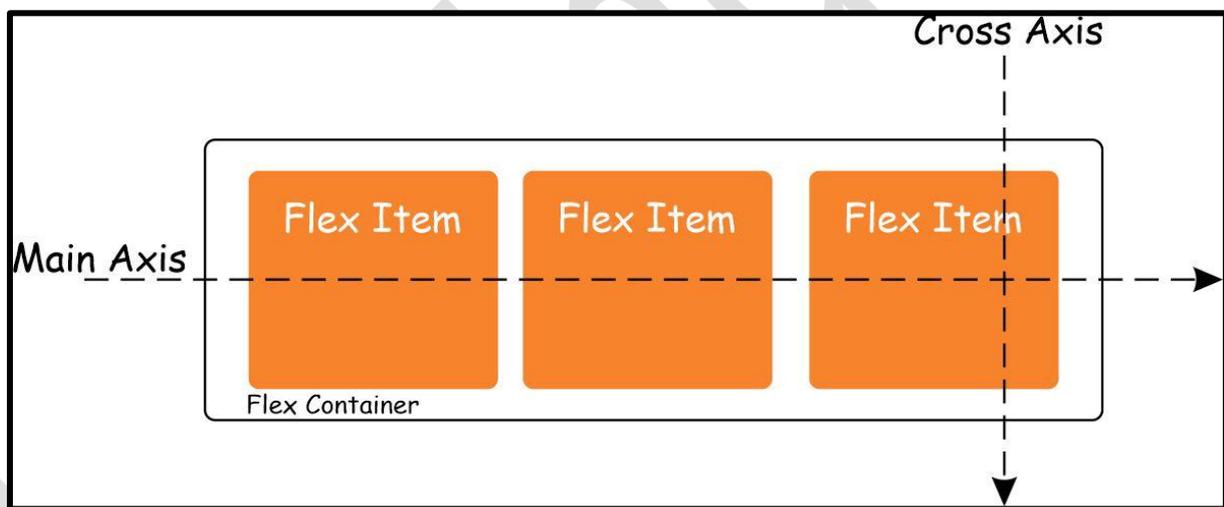
<p>The media query is applied if the media type is screen, and the viewport width is between 480px and 768px.</p>

</body>

</html>

CSS Flexbox

CSS Flexbox ka full form hai CSS Flexible Box Layout module. Flexbox ek layout model hai jo items ko horizontally ya vertically container ke andar arrange karne ke liye use hota hai, aur ye flexible aur responsive hota hai. Flexbox se layout design karna easy ho jata hai, bina float ya positioning use kiye.



CSS Flexbox Components

Flex Container (Parent)

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
- Website: <https://learninghubshahabad.in>
- display: flex; ya display: inline-flex;

Flex Items (Child)

- Elements inside flex container

Main Axis & Cross Axis

- Main Axis → primary direction (row/column)
- Cross Axis → perpendicular to main axis

Flex Container Properties

- flex-direction
- justify-content
- align-items
- flex-wrap
- align-content

Flex Item Properties

- flex-grow
- flex-shrink
- flex-basis
- align-self

<!DOCTYPE html>

<html>

<head>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<style>
```

```
.container {
```

```
display: flex;
```

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
margin: 10px;
```

```
padding: 20px;
```

```
font-size: 24px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Create a Flex Container</h1
```

```
<div class="container">
```

```
<div>Item 1</div>
```

```
<div>Item 2</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<div>Item 3</div>

</div>

<p>Flexbox must have a parent element with the display property set to flex or inline-flex.</p>

<p>Direct child elements of the flex container automatically becomes flex items.</p>

</body>

</html>

CSS Flex Container Properties

- **display**
 - Flex container banane ke liye flex ya inline-flex set karna zaroori hai.
- **flex-direction**
 - Ye flex items ki display direction set karta hai.
 - Options: row (default, horizontal), column (vertical), row-reverse, column-reverse.
- **flex-wrap**
 - Ye decide karta hai ki items wrap karein ya ek line me hi rahein.
 - Options: nowrap (default), wrap, wrap-reverse.
- **flex-flow**
 - Ye shorthand property hai jo flex-direction + flex-wrap dono set karta hai.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
 - Example: flex-flow: row wrap;
- **justify-content**
 - Ye main-axis (horizontal by default) pe items ko align karta hai jab extra space ho.
 - Options: flex-start, flex-end, center, space-between, space-around, space-evenly.
- **align-items**
 - Ye cross-axis (vertical by default) pe items ko align karta hai.
 - Options: flex-start, flex-end, center, baseline, stretch.
- **align-content**
 - Jab multiple lines me items wrap ho rahe ho aur extra space cross-axis me ho, to lines ko align karta hai.
 - Options: flex-start, flex-end, center, space-between, space-around, stretch.

CSS flex-direction Property

flex-direction

- Ye property flex items ki display-direction specify karti hai flex container ke andar.

Values:

- row (default) → Items horizontally left to right arrange hote hain.
- column → Items vertically top to bottom arrange hote hain.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- row-reverse → Items horizontally right to left arrange hote hain.
- column-reverse → Items vertically bottom to top arrange hote hain.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
flex-direction: column-reverse;
```

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
width: 100px;
```

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

</style>

</head>

<body>

<h1>flex-direction: column-reverse</h1>

<p>flex-direction: column-reverse; displays the flex items vertically (but from bottom to top):</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

</div>

</body>

</html>

flex-wrap

- Ye property decide karti hai ki flex items wrap karein ya ek hi line me rahein agar container me space kam ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Values:

- nowrap (default) → Sab items ek hi line me rahenge, wrap nahi honge.
- wrap → Items next line pe wrap ho jayenge agar space kam ho.
- wrap-reverse → Items wrap honge opposite direction me (bottom to top ya right to left, depending on flex-direction).

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
flex-wrap: wrap-reverse;
```

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
width: 100px;
```

```
margin: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

padding: 10px;

text-align: center;

font-size: 30px;

}

</style>

</head>

<body>

<h1>flex-wrap: wrap-reverse</h1>

<p>flex-wrap: wrap-reverse; specifies that the flex items will wrap if necessary, in reverse order:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

<div>7</div>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div>8</div>
```

```
<div>9</div>
```

```
</div>
```

```
<p>Try resizing the browser window!</p>
```

```
</body>
```

```
</html>
```

flex-flow

- Ye shorthand property hai jo flex-direction aur flex-wrap dono ko ek saath set karne ke liye use hoti hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
flex-flow: row wrap;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
width: 100px;
```

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>The flex-flow Property</h1>
```

```
<p>The flex-flow property is a shorthand property for the flex-direction and the flex-wrap properties.</p>
```

```
<div class="container">
```

```
<div>1</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

<div>7</div>

<div>8</div>

<div>9</div>

</div>

<p>Try resizing the browser window.</p>

</body>

</html>

CSS justify-content Property

- Ye property flex items ko main-axis (horizontal by default) pe align karne ke liye use hoti hai, jab extra space ho.

Values:

- flex-start (default) → Items line ke start me align honge.
- flex-end → Items line ke end me align honge.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- center → Items center me align honge.
- space-between → Items ke beech me equal space, start/end ke edges pe space nahi.
- space-around → Items ke har side me equal space, edges pe bhi thoda space.
- space-evenly → Items ke beech aur edges ke around poori tarah se equal space.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
justify-content: space-evenly;
```

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
width: 100px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>justify-content: space-evenly</h1>
```

```
<p>justify-content: space-evenly; displays the flex items with equal space around them:</p>
```

```
<div class="container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div>3</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

CSS align-items Property

- Ye property flex items ko cross-axis (vertical by default) pe align karne ke liye use hoti hai, jab extra space ho.

Values:

- flex-start → Items top pe align honge.
- flex-end → Items bottom pe align honge.
- center → Items center me align honge.
- stretch → Items container ki height ke according stretch honge (default behavior for stretched items).
- baseline → Items ki text baseline ke according align honge.
- normal (default) → Normal alignment, browser default follow karta hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
height: 200px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

align-items: baseline;

background-color: DodgerBlue;

}

.container div {

background-color: #f1f1f1;

width: 100px;

margin: 10px;

padding: 10px;

text-align: center;

font-size: 30px;

}

</style>

</head>

<body>

<h1>align-items: baseline</h1>

<p>align-items: baseline; aligns the flex items at the baseline of the container.</p>

<div class="container">

<div><h2>1</h2></div>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div><h3>2</h3></div>
```

```
<div><h4>3</h4></div>
```

```
<div><small>4</small></div>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS align-content

- Ye property flex items ki lines ko cross-axis (vertical by default) pe align karne ke liye use hoti hai, jab multiple lines ho aur extra space available ho.
- Ye align-items se different hai, kyunki align-items individual items ko align karta hai, aur align-content poori lines ko.

Values:

- stretch (default) → Lines container ke cross-axis me stretch ho jati hain.
- flex-start → Lines top pe align hoti hain.
- flex-end → Lines bottom pe align hoti hain.
- center → Lines center me align hoti hain.
- space-between → Lines ke beech me equal space, start/end pe nahi.
- space-around → Lines ke har side me equal space, edges pe thoda space.
- space-evenly → Lines ke beech aur edges ke around poori tarah se equal

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>
space.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
justify-content: center;
```

```
align-items: center;
```

```
height: 400px;
```

```
background-color: DodgerBlue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
width: 100px;
```

```
height: 100px;
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>True Centering</h1>
```

```
<p>A flex container with both the justify-content and the align-items properties set to center will align the flex item(s) in the center (in both axis).</p>
```

```
<div class="container">
```

```
  <div>1</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

The CSS Flex Container Properties

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- display → Element ka display behavior specify karta hai (type of rendering box).
- flex-direction → Flex container ke andar flex items ka direction set karta hai.
- flex-wrap → Decide karta hai ki items wrap karein ya ek line me hi rahein agar space kam ho.
- flex-flow → Shorthand property hai jo flex-direction aur flex-wrap dono set karta hai.
- justify-content → Main-axis (horizontal) pe flex items ko align karta hai jab extra space ho.
- align-items → Cross-axis (vertical) pe flex items ko align karta hai jab extra space ho.
- align-content → Flex lines ko cross-axis pe align karta hai; ye align-items ki tarah hai, lekin lines ko align karta hai, individual items ko nahi.

CSS flex-shrink Property

- Ye property specify karti hai ki flex item kitna shrink (chhota) ho sakta hai agar container me space kam ho.
- Default value: 1 → item shrink ho sakta hai agar zarurat ho.
- Agar value 0 ho → item shrink nahi hoga, chahe space kam ho.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.container {  
  
display: flex;  
  
background-color: dodgerblue;  
  
}
```

```
.container div {  
  
background-color: #f1f1f1;  
  
color:#000;  
  
width: 100px;  
  
margin: 10px;  
  
padding: 10px;  
  
text-align: center;  
  
font-size: 30px;  
  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>The flex-shrink Property</h1>
```

```
<p>Let the third flex item shrink twice as much as the other flex items:</p>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div style="flex-shrink: 2">3</div>
```

```
<div>4</div>
```

```
<div>5</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS flex-basis Property

- Ye property specify karti hai ki flex item ka initial size kya hoga before any growing or shrinking.
- Default value: auto → item apne content ke size ke hisaab se size leta hai.
- Isse hum item ka starting width (row) ya height (column) define kar sakte hain.

```
<!DOCTYPE html>
```

```
<html>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
background-color: dodgerblue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color:#000;
```

```
width: 100px;
```

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<body>
```

```
<h1>The flex-basis Property</h1>
```

```
<p>Set the initial length of the third flex item to 250 pixels:</p>
```

```
<div class="container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div style="flex-basis:250px">3</div>
```

```
<div>4</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS flex Property

- Shorthand property for flex-grow, flex-shrink, and flex-basis
- Syntax: flex: <flex-grow> <flex-shrink> <flex-basis>;
- Example: flex: 2 1 200px;
- 2 → flex-grow (item kitna grow karega)
- 1 → flex-shrink (item kitna shrink karega)

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- 200px → flex-basis (initial size)
- Shortcut values:
 - flex: auto; → 1 1 auto
 - flex: none; → 0 0 auto
 - flex: 1; → 1 1 0%
- Controls overall sizing behavior of flex items

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
background-color: dodgerblue;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color:#000;
```

```
width: 100px;
```

```
margin: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

padding: 10px;

text-align: center;

font-size: 30px;

}

</style>

</head>

<body>

<h1>The flex Property</h1>

<p>Make the third flex item growable (1), not shrinkable (0), and with an initial length of 150 pixels:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div style="flex: 1 0 150px">3</div>

<div>4</div>

</div>

</body>

</html>

- All Computer Courses
 - English Language Courses
 - Brand Marketing & Custom Software Solution
 - Academic Tuition(All Subjects)
- Website: <https://learninghubshahabad.in>

CSS align-self Property

- Overrides align-items for a specific flex item
- Aligns a single flex item on the cross-axis (vertical by default)
- Syntax: align-self: value;
- Values:
- auto → Default, item follows align-items
- flex-start → Aligns item at the start of cross-axis
- flex-end → Aligns item at the end of cross-axis
- center → Aligns item in the center of cross-axis
- baseline → Aligns item based on text baseline
- stretch → Stretches item to fill container

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: flex;
```

```
height: 200px;
```

```
background-color: dodgerblue;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color:#000;
```

```
width: 100px;
```

```
margin: 10px;
```

```
padding: 10px;
```

```
text-align: center;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>align-self: flex-start and align-self: flex-end</h1>
```

```
<p>The "align-self: flex-start;" aligns the flex item at the top of the container.</p>
```

```
<p>The "align-self: flex-end;" aligns the flex item at the bottom of the container.</p>
```

```
<div class="container">
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div>1</div>
```

```
<div style="align-self: flex-start">2</div>
```

```
<div style="align-self: flex-end">3</div>
```

```
<div>4</div>
```

```
</div>
```

```
<p>The align-self property overrides the align-items property of the container.</p>
```

```
</body>
```

```
</html>
```

The CSS Flex Items Properties

Property	Description
align-self	Flex container ke align-items ko override karta hai aur ek single item ko cross-axis pe align karta hai
flex	Shorthand property for flex-grow, flex-shrink, aur flex-basis
flex-basis	Flex item ka initial size specify karta hai

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Property	Description
flex-grow	Flex item kitna grow karega relative to baaki items
flex-shrink	Flex item kitna shrink karega relative to baaki items
order	Flex items ke display order ko specify karta hai

CSS Responsive Flexbox

- Responsive Flexbox ka matlab hai flex items aur containers ko screen size ke hisaab se adjust karna.
- Flexbox naturally responsive aur flexible hai, lekin media queries ke saath use karne se layouts mobile, tablet, aur desktop pe perfectly fit hote hain.

Key Points:

- flex-wrap: wrap; → Items wrap ho jate hain agar space kam ho
- flex-direction → Screen size ke hisaab se row ya column change kar sakte hain
- flex-basis, flex-grow → Items apne available space ke according size adjust karte hain
- Media queries ke saath combine karke breakpoints pe layout change kar sakte hain

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
* {
```

```
  box-sizing: border-box;
```

```
}
```

```
.flex-container {
```

```
  display: flex;
```

```
  flex-wrap: wrap;
```

```
}
```

```
.flex-item {
```

```
  background-color: #f1f1f1;
```

```
  padding: 10px;
```

```
  text-align: center;
```

```
  font-size: 30px;
```

```
  flex: 33.3%;
```

```
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

/* On screens that are 600px wide or less, make the columns stack on top of each other instead of next to each other */

```
@media (max-width: 600px) {
```

```
  .flex-item {
```

```
    flex: 100%;
```

```
  }
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Responsive Flexbox</h1>
```

```
<p>In this example, we change the percentage of flex to create different layouts for different screen sizes.</p>
```

```
<p><strong>Resize the browser window to see the effect.</strong></p>
```

```
<div class="flex-container">
```

```
  <div class="flex-item">1</div>
```

```
  <div class="flex-item">2</div>
```

```
  <div class="flex-item">3</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

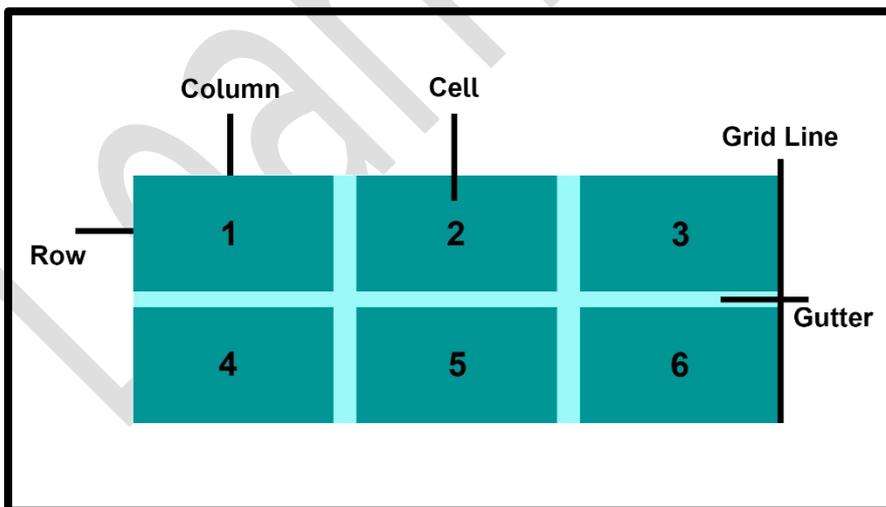
</div>

</body>

</html>

CSS Grid Layout

- CSS Grid ek 2D layout system hai jo rows aur columns dono me items ko arrange karne ke liye use hota hai.
- Ye flexbox se alag hai, kyunki flexbox mostly 1D (row ya column) ke liye hai, lekin grid 2D layout handle karta hai.
- Grid se aap complex layouts easily create kar sakte ho without floats ya positioning.



<!DOCTYPE html>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-areas:
```

```
  "header header"
```

```
  "menu content"
```

```
  "footer footer";
```

```
grid-template-columns: 1fr 3fr;
```

```
gap: 3px;
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
}
```

```
.container div {
```

```
background-color: white;
```

```
padding: 10px;
```

```
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.container div.header {
```

```
    grid-area: header;
```

```
    text-align: center;
```

```
}
```

```
.container div.menu {
```

```
    grid-area: menu;
```

```
}
```

```
.container div.content {
```

```
    grid-area: content;
```

```
}
```

```
.container div.footer {
```

```
    grid-area: footer;
```

```
    text-align: center;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>CSS Grid Layout</h1>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>The Grid Layout Module offers a grid-based layout system, with rows and columns.</p>

<p>The Grid Layout Module makes it easy to design complex and responsive web pages without using floats and positioning:</p>

```
<div class="container">
```

```
  <div class="header"><h2>My Header</h2></div>
```

```
  <div class="menu"><a href="#">Link 1</a><br><a href="#">Link 2</a><br><a href="#">Link 3</a></div>
```

```
  <div class="content"><h3>Lorem Ipsum</h3><p>Lorem ipsum odor amet, consectetur adipiscing elit. Ridiculus sit nisl laoreet facilisis aliquet. Potenti dignissim litora eget montes rhoncus sapien neque urna. Cursus libero sapien integer magnis ligula lobortis quam ut.</p></div>
```

```
  <div class="footer"><h4>Footer</h4></div>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS Grid Components

- Grid Container

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

- Parent element jisme display: grid ya display: inline-grid set hota hai
- Ye container hi grid system create karta hai
- **Grid Items**
 - Container ke direct children automatically grid items ban jate hain
 - Ye items grid rows aur columns me place hote hain

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: auto auto auto;
```

```
background-color: dodgerblue;
```

```
padding: 10px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
border: 1px solid black;
```

```
padding: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

font-size: 30px;

text-align: center;

}

</style>

</head>

<body>

<h1>Grid Layout</h1>

<p>A Grid Layout must have a parent element with the display property set to grid or inline-grid.</p>

<p>Direct child element(s) of the grid container automatically becomes grid items.</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</div>

</body>

</html>

Property	Description
display	Element ko grid container banata hai (use grid ya inline-grid))
grid-template-columns	Grid ke columns ka number aur width define karta hai
grid-template-rows	Grid ke rows ka number aur height define karta hai)
grid-template-areas	Named areas define karne ke liye; layout ko semantic regions me divide karta hai
grid-template	Shorthand property jo grid-template-rows, grid-template-columns, (aur optionally) grid-template-areas ko set karta hai)
gap / row-gap / column-gap	Grid items ke beech spacing (gutters) specify karta hai — row ke beech ya column ke beech)

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Property	Description
grid-auto-rows	Agar extra items (ya implicitly generated rows) bane, un rows ka size specify karta hai
grid-auto-columns	Agar extra columns implicitly bane, un columns ka size specify karta hai)
grid-auto-flow	Define karta hai ki auto-placed items grid me kaise fill honge — row-wise, column-wise, dense placement, etc.
justify-items	Individual grid items ko horizontal (inline) axis pe align karta hai within their grid cell
align-items	Individual grid items ko vertical (block) axis pe align karta hai within their grid cell
place-items	Shorthand for justify-items + align-items — dono axis alignment ek sath set karta hai
justify-content	Poore grid (all cells) ko horizontal axis pe align karta hai agar total grid width container se chhoti ho)
align-content	Poore grid ko vertical axis pe align karta hai agar grid height container se chhoti ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

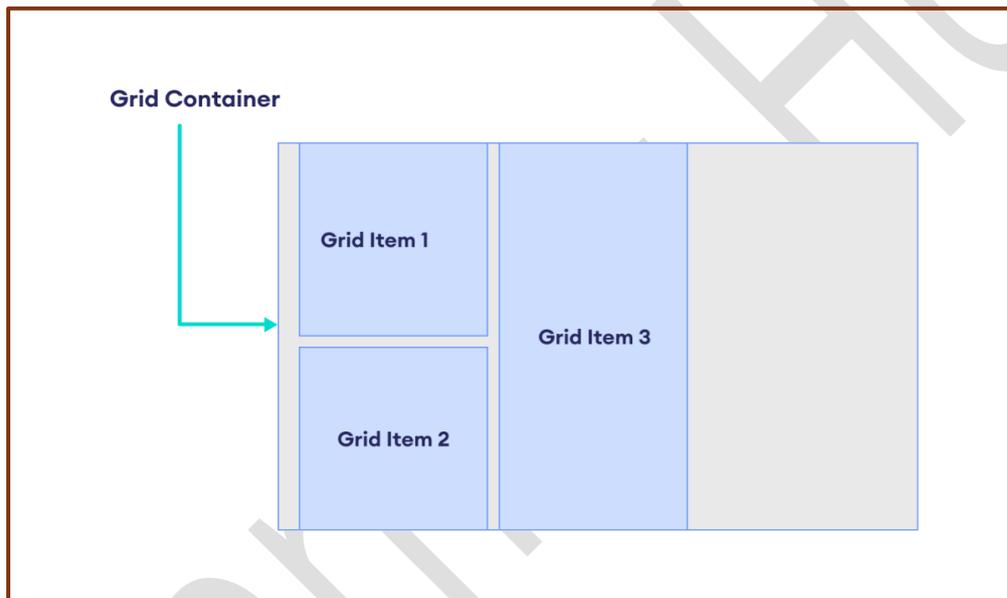
Property	Description
place-content	Shorthand for justify-content + align-content — both axes pe alignment ek sath set karna possible banata hai
grid-column-start / grid-column-end	Grid item ke liye define karta hai ki woh kis column line se start aur kis pe end hoga
grid-row-start / grid- row-end	Grid item ke liye define karta hai ki woh kis row line se start aur kis pe end hoga
grid-column	Shortcut for grid-column-start / grid-column-end — column positioning and span ek sath specify karta hai
grid-row	Shortcut for grid-row-start / grid-row-end — row positioning and span define karta hai
grid-area	Shorthand — ek item ka row start/end + column start/end + named area sab ek saath define kar sakta hai

Grid Container

- Agar kisi HTML element ka display property grid ya inline-grid set ho — to woh element ban jata hai grid container.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- Is container ke direct child elements automatically ban jate hain grid items.
- Grid container ek 2-D layout context create karta hai — matlab aap rows and columns dono define kar sakte hain, jo layout ko zyada flexible aur powerful banata hai.



- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Grid Tracks

- Jab aap grid-template-columns ya grid-template-rows set karte hain, to aap grid tracks define kar rahe hote hain.
- Track ka matlab hai: ek column-track (vertical space between two vertical grid-lines) ya ek row-track (horizontal space between two horizontal grid-lines).
- In tracks ke sizes aur counts ko aap explicitly define kar sakte hain — ya agar aap rows/columns define nahi karte, to implicit grid tracks automatically generate ho sakte hain.

Property	Use / Description
grid-template-columns	Columns ki number + width define karta hai — matlab kitne columns honge aur har column kitna wide hoga.
grid-template-rows	Rows ki number + height define karta hai — matlab grid me kitni rows honge aur har row ki height kya hogi.
grid-template-areas	Agar aap layout ko naam-areas ke through structure dena chahte hain — is property se aap define karte hain ke kaunsa area kis jagah pe rahega (header, sidebar, content, footer, etc).

<!DOCTYPE html>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: auto auto auto;
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
gap: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color: #000;
```

```
padding: 10px;
```

```
font-size: 30px;
```

```
text-align: center;
```

```
}
```

```
</style>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</head>

<body>

<h1>The grid-template-columns Property</h1>

<p>Create a grid with 3 columns of equal width, with the auto keyword:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

</div>

</body>

</html>

CSS grid-template-columns: auto

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

grid-template-columns: auto; — Iska matlab hai ki grid ka column apne content ke size ke hisaab se width decide karega (automatic sizing based on content)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: auto auto auto;
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
gap: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color: #000;
```

```
padding: 10px;
```

```
font-size: 30px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

text-align: center;

}

</style>

</head>

<body>

<h1>The grid-template-columns Property</h1>

<p>Create a grid with 3 columns of equal width, with the auto keyword:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

</div>

</body>

</html>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Grid Columns with Mixed Width

Aap kisi grid container me column widths define kar sakte hain using fixed length (px, em), auto, fractional (fr), percentage, etc.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
  display: grid;
```

```
  grid-template-columns: 80px 200px auto;
```

```
  background-color: dodgerblue;
```

```
  padding: 5px;
```

```
  gap: 5px;
```

```
}
```

```
.container div {
```

```
  background-color: #f1f1f1;
```

```
  color: #000;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

padding: 10px;

font-size: 30px;

text-align: center;

}

</style>

</head>

<body>

<h1>The grid-template-columns Property</h1>

<p>Create a grid with a fixed size for column 1 and 2, and column 3 as auto size:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

</div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</body>

</html>

Grid Columns with the fr Unit

- fr stands for fraction — matlab grid container me jo bacha hua space hai, uska ek fraction.
- Agar aap likhte hain grid-template-columns: 1fr 1fr 1fr;, to container ka leftover space 3 equal parts me divide ho jayega aur har column ko 1 fraction milegi → yani sab columns equal width layenge.

<!DOCTYPE html>

<html>

<head>

<style>

.container {

display: grid;

grid-template-columns: 1fr 1fr 1fr;

background-color: dodgerblue;

padding: 5px;

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

gap: 5px;

}

.container div {

background-color: #f1f1f1;

color: #000;

padding: 10px;

font-size: 30px;

text-align: center;

}

</style>

</head>

<body>

<h1>The grid-template-columns Property</h1>

<p>Here, each column will take up 33.3% of the container width, splitting it equally (1fr):</p>

<div class="container">

<div>1</div>

<div>2</div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div>3</div>
```

```
<div>4</div>
```

```
<div>5</div>
```

```
<div>6</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Grid Columns with the repeat() Function

- repeat() ek CSS function hai jo ek column (ya row) track list ko baar-baar dohrane (repeat) ke liye use ki jaati hai.
- Isse aapko manually bahut saari same sized columns define nahi karni padti — code concise aur readable ho jata hai.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
grid-template-columns: repeat(3, 1fr);
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
gap: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color: #000;
```

```
padding: 10px;
```

```
font-size: 30px;
```

```
text-align: center;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>The grid-template-columns Property</h1>
```

```
<p>Use repeat() to create three equal-width columns in a grid:</p>
```

```
<div class="container">
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

<div>6</div>

</div>

</body>

</html>

Grid Columns with the minmax() Function

- minmax(min, max) ek function hai jo specify karta hai ki ek grid-track (column ya row) ki width/height minimum aur maximum range ke beech hogi.
- Matlab: grid column kabhi min value se chhoti nahi hogi, aur agar space milti hai to woh max tak expand ho sakti hai.
- min aur max arguments flexible ho sakte hain — length units (px, %, em), fractional units (fr), ya keywords jaise min-content, max-content, auto etc.

<!DOCTYPE html>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: minmax(80px, 1fr) 150px 150px; /* First column is at  
least 80px and can grow to 1fr */
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
gap: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color: #000;
```

```
padding: 10px;
```

```
font-size: 30px;
```

```
text-align: center;
```

```
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>The grid-template-columns Property</h1>
```

```
<p>Use minmax() to define a size-range for the first grid column:</p>
```

```
<div class="container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div>3</div>
```

```
div>4</div>
```

```
<div>5</div>
```

```
<div>6</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

The CSS grid-template-rows Property

- grid-template-rows property use hoti hai to define kitni rows hogi aur har row

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

ki height kya hogi, jab aap apna element as a grid container banaate hain.

MDN Web Docs+2GeeksforGeeks+2

- Ye property row-tracks (grid rows) ki sizing aur arrangement decide karta hai. MDN Web Docs+1

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: auto auto auto;
```

```
grid-template-rows: 80px 200px;
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
gap: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
color:#000;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

padding: 10px;

font-size: 30px;

text-align: center;

}

</style>

</head>

<body>

<h1>The grid-template-rows Property</h1>

<p>Use the grid-template-rows property to specify the size (height) of each row.</p>

<p>Notice that the first row in this grid is 80px high and the second row is 200px high. The next rows will use auto as default:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div>6</div>
```

```
<div>7</div>
```

```
<div>8</div>
```

```
</div>
```

```
</body>
```

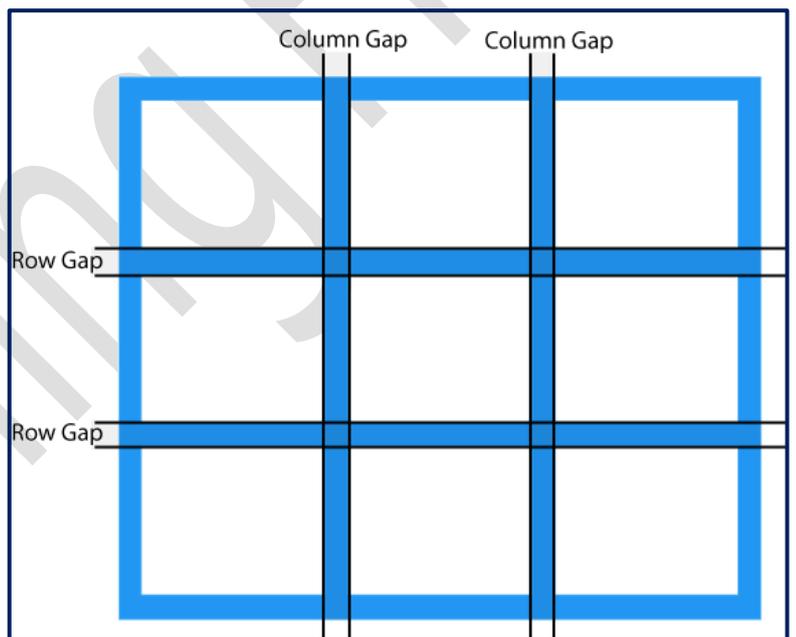
```
</html>
```

CSS Grid Gap

In CSS Grid, the gap is the space between grid items. It replaces the older method of using margins for spacing. It makes your layout cleaner and easier to manage.

Column-gap in CSS

column-gap ek CSS property hai jo multi-column layout ya flex/grid layout me columns ke beech ka space (gap) set karti hai.



```
<!DOCTYPE html>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
column-gap: 50px;
```

```
grid-template-columns: auto auto auto;
```

```
background-color: dodgerblue;
```

```
padding: 10px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
border: 1px solid black;
```

```
padding: 20px;
```

```
font-size: 30px;
```

```
text-align: center;
```

```
}
```

```
</style>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
</head>
```

```
<body>
```

```
<h1>The column-gap Property</h1>
```

```
<p>Use the <em>column-gap</em> property to adjust the space between the grid columns:</p>
```

```
<div class="container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div>3</div>
```

```
<div>4</div>
```

```
<div>5</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

The CSS row-gap Property

row-gap ek CSS property hai jo kisi container (jaise Grid ya Flexbox) ke rows ke beech ka vertical space set karti hai.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
row-gap: 50px;
```

```
grid-template-columns: auto auto auto;
```

```
background-color: dodgerblue;
```

```
padding: 10px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
border: 1px solid black;
```

```
padding: 20px;
```

```
font-size: 30px;
```

```
text-align: center;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

</style>

</head>

<body>

<h1>The row-gap Property</h1>

<p>Use the row-gap property to adjust the space between the grid rows:</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

</div>

</body>

</html>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The CSS gap Property

gap ek CSS property hai jo Grid aur Flexbox containers ke items ke beech ka spacing set karti hai —
chahe woh row ka gap ho ya column ka.

```
<!DOCTYPE html>

<html>

<head>

<style>

.container {

    display: grid;

    gap: 30px 100px;

    grid-template-columns: auto auto auto;

    background-color: dodgerblue;

    padding: 10px;

}

.container div {

    background-color: #f1f1f1;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

border: 1px solid black;

padding: 20px;

font-size: 30px;

text-align: center;

}

</style>

</head>

<body

<h1>The gap Property</h1>

<p>Use the gap shorthand property to adjust the space between the columns and rows.</p>

<div class="container">

<div>1</div>

<div>2</div>

<div>3</div>

<div>4</div>

<div>5</div>

</div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</body>

</html>

CSS Grid Gap Properties

Property	Description (Hinglish)
column-gap	Grid ya flex container ke columns (left-right) ke beech ka space set karta hai.
gap	Shorthand property — ek hi line mein row-gap + column-gap dono set kar deta hai.
row-gap	Grid ya flex container ke rows (upar-neeche) ke beech ka space set karta hai.

CSS Grid Items - Order

order ek CSS property hai jo grid items ka visual order change karne ke kaam aati hai —

matlab HTML mein item jis position par likha hai, use change kiye bina aap usko grid ke andar age/peeche move kar sakte ho.

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.container {
```

```
display: grid;
```

```
grid-template-columns: auto auto auto;
```

```
gap: 5px;
```

```
background-color: dodgerblue;
```

```
padding: 5px;
```

```
}
```

```
.container div {
```

```
background-color: #f1f1f1;
```

```
text-align: center;
```

```
padding: 10px;
```

```
font-size: 30px;
```

```
.item1 {order: 3;}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.item2 {order: 6;}
```

```
.item3 {order: 1;}
```

```
.item4 {order: 2;}
```

```
.item5 {order: 4;}
```

```
.item6 {order: 5;}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Visual Order of the Grid Items</h1>
```

```
<p>The grid items do not have to be displayed in the same order as they are written in the HTML source code.</p>
```

```
<p>The CSS order property can be used to define the visual order of the grid items.</p>
```

```
<div class="container">
```

```
<div class="item1">1</div>
```

```
<div class="item2">2</div>
```

```
<div class="item3">3</div>
```

```
<div class="item4">4</div>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="item5">5</div>
```

```
<div class="item6">6</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS 12-Column Grid Layout

A 12-column grid layout ek layout system hai jisme container ko 12 equal columns me divide kiya jata hai.

Isse responsive layouts banana bohot easy ho jata hai — jaise 3-column layout, 4-column layout, sidebar + content, etc.

12 ko choose karne ka reason:

12 ko bohot saare numbers se divide kiya ja sakta hai → 1, 2, 3, 4, 6, 12

(Isse flexible layouts milte hain.)

Create the 12 Columns

- Use this code to create a 12-column grid:
- `grid-template-columns: repeat(12, [col-start] 1fr);`

`repeat(12, ...)`

- Grid ko bolta hai ki track definition 12 times repeat karo.
- Result: 12 equal columns ban jaate hain.

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

[col-start]

- Yeh ek named grid line banata hai jiska naam col-start hota hai.
- Kyunki yeh repeat ke andar hai, 12 col-start lines create hongi.
- Named lines se aap items ko specific points par precisely place kar sakte ho.

Example:

- grid-column: col-start 3;

1fr

- 1fr = one fraction of available space.
- 12 columns me sabko 1fr dene ka matlab: 12 equal-width columns.
- Columns responsive aur fluid rehte hain.

Use Mediaqueries to Add Breakpoints

- Media queries CSS ka feature hai jo different screen sizes ya devices ke liye styles apply karne ke liye use hoti hai.
- Isse aap responsive layouts create kar sakte ho.

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
<meta charset="UTF-8">
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<style>
```

```
* {
```

```
  box-sizing: border-box;
```

```
}
```

```
.container {
```

```
  display: grid;
```

```
  grid-template-columns: repeat(12, [col-start] 1fr);
```

```
  gap: 20px;
```

```
}
```

```
nav ul {
```

```
  list-style: none;
```

```
  margin: 0;
```

```
  padding: 0;
```

```
}
```

```
/* Mobile first */
```

```
.container > * {
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

border: 1px solid green;

background-color: beige;

padding: 10px;

grid-column: col-start / span 12;

}

@media (min-width: 576px) {

.sidebar {

grid-column: col-start / span 3;

grid-row: 3;

}

.ads {

grid-column: col-start / span 3;

}

.content, .footer {

grid-column: col-start 4 / span 9;

}

nav ul {

display: flex;

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

justify-content: space-between;

}

}

@media (min-width: 768px) {

.nav {

grid-column: col-start / span 2;

grid-row: 2 / 4;

}

.content {

grid-column: col-start 3 / span 8;

grid-row: 2 / 4;

}

.sidebar {

grid-column: col-start 11 / span 2;

}

.ads {

grid-column: col-start 11 / span 2;

}

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.footer {  
  
  grid-column: col-start / span 12;  
  
}  
  
nav ul {  
  
  flex-direction: column;  
  
}  
  
}  
  
</style>  
  
</head>  
  
<body>  
  
<div class="container">  
  
  <header class="head">Header/Company Logo</header>  
  
  <nav class="nav">  
  
    <ul>  
  
      <li><a href="#">Link 1</a></li>  
  
      <li><a href="#">Link 2</a></li>  
  
      <li><a href="#">Link 3</a></li>  
  
    </ul>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
</nav>
```

```
<div class="content">
```

```
<h1>Content area</h1>
```

```
<p>Here we display the sections in source order for screens less than 576 pixels wide.</p>
```

```
<p>Then, we go to a two column layout for screens between 576 and 767 pixels wide.</p>
```

```
<p>Then, we go to a three column layout for screens over 767 pixels wide.</p>
```

```
<p>Resize the browser window to see the responsive effect.</p>
```

```
</div>
```

```
<div class="sidebar">Sidebar</div>
```

```
<div class="ads">Ads</div>
```

```
<footer class="footer">The footer</footer>
```

```
</div>
```

```
</body>
```

```
</html>
```

CSS @supports Rule

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- @supports ek CSS at-rule hai jo check karta hai ki browser kisi specific CSS property ya value ko support karta hai ya nahi.
- Agar browser support karta hai, tab aap specific styles apply kar sakte ho.
- Agar support nahi karta, toh fallback styles use kar sakte ho.

Using @supports with grid and flex

- Kuch purane browsers CSS Grid ya Flexbox support nahi karte.
- @supports se aap check kar sakte ho ki browser grid/flex support karta hai ya nahi, aur fallback layout define kar sakte ho.
- Useful for progressive enhancement: modern layout apply hota hai jahan possible, aur simple layout purane browsers ke liye.

```
<!DOCTYPE html>

<html>

<head>

<style>

.container {

display: table;

width: 90%;

background-color: #2196F3;

padding: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

```
@supports (display: grid) {
```

```
  .container {
```

```
    display: grid;
```

```
    grid: auto;
```

```
    grid-gap: 10px;
```

```
    background-color: #2196F3;
```

```
    padding: 10px;
```

```
  }
```

```
}
```

```
.container > div {
```

```
  background-color: rgba(255, 255, 255, 0.8);
```

```
  text-align: center;
```

```
  padding: 20px 0;
```

```
  font-size: 30px;
```

```
}
```

```
</style>
```

```
</head>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<body>

<h1>The @supports Rule</h1>

<p>If the browser supports display: grid, the CSS inside the @supports rule will be applied. If not, the .container class outside the @supports rule will be applied:</p>

<div class="container">

<div class="item1">1</div>

<div class="item2">2</div>

<div class="item3">3</div>

<div class="item4">4</div>

<div class="item5">5</div>

<div class="item6">6</div>

</div>

</body>

</html>

Combining Conditions

```
@supports (display: grid) and (gap: 10px) {  
  .container {  
    display: grid;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

gap: 10px;

}

}

Negating with not

```
@supports not (display: grid) {
```

```
  .warning {
```

```
    background-color: pink;
```

```
    padding: 10px;
```

```
    border: 1px solid red;
```

```
  }
```

```
}
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Responsive Web Design

Responsive Web Design ka matlab hai web pages ko har screen size aur device pe properly display karna.

- Page layout automatic adjust ho jata hai: desktop, tablet, mobile sab me sahi dikhai deta hai.
- Goal: Better user experience har device par.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<style>
```

```
* {
```

```
  box-sizing: border-box;
```

```
}
```

```
body {
```

```
  font-family: "Lucida Sans", sans-serif;
```

```
  font-size: 17px;
```

```
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.grid-container {  
  
display: grid;  
  
grid-template-areas:  
  
    'header'  
  
    'menu'  
  
    'main'  
  
    'facts'  
  
    'footer';  
  
background-color: white;  
  
gap: 10px;  
}
```

```
.header {  
  
grid-area: header;  
  
background-color: purple;  
  
text-align: center;  
  
color: #ffffff;  
  
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.header > h1 {
```

```
font-size: 40px;
```

```
}
```

```
.menu {
```

```
grid-area: menu;
```

```
}
```

```
.menu ul {
```

```
list-style-type: none;
```

```
margin: 0;
```

```
padding: 0;
```

```
}
```

```
.menu li {
```

```
padding: 8px;
```

```
margin-bottom: 7px;
```

```
background-color: #33b5e5;
```

```
color: #ffffff;
```

```
}
```

```
.menu li:hover {
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
background-color: #0099cc;
```

```
}
```

```
.content {
```

```
    grid-area: main;
```

```
}
```

```
.content > h1 {
```

```
    font-size: 30px;
```

```
    margin-bottom: 7px;
```

```
}
```

```
.content > p {
```

```
    margin-bottom: 7px;
```

```
}
```

```
.facts {
```

```
    grid-area: facts;
```

```
    border: 1px solid #0099cc;
```

```
    background-color: beige;
```

```
    padding: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.facts > h2 {
```

```
font-size: 20px;
```

```
}
```

```
.facts li {
```

```
margin-bottom: 5px;
```

```
}
```

```
.footer {
```

```
grid-area: footer;
```

```
background-color: #0099cc;
```

```
color: #ffffff;
```

```
text-align: center;
```

```
}
```

```
@media (min-width: 600px) {
```

```
.header {grid-area: 1 / span 6;}
```

```
.menu {grid-area: 2 / span 1;}
```

```
.content {grid-area: 2 / span 4;}
```

```
.facts {grid-area: 3 / span 6;}
```

```
.footer {grid-area: 4 / span 6;}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

@media (min-width: 768px) {

.header {grid-area: 1 / span 6;}

.menu {grid-area: 2 / span 1;}

.content {grid-area: 2 / span 4;}

.facts {grid-area: 2 / span 1;}

.footer {grid-area: 3 / span 6;}

}

</style>

</head>

<body>

<div class="grid-container"

<div class="header"><h1>Chania</h1></div>

<div class="menu">

The Flight

The City

The Island

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

The Food

</div>

<div class="content">

<h1>The City</h1>

<p>Chania is the capital of the Chania region on the island of Crete.</p>

<p>The city can be divided in two parts, the old town and the modern city. The old town is situated next to the old harbour and is the matrix around which the whole urban area was developed.</p>

<p>Chania lies along the north west coast of the island Crete.</p>

</div>

<div class="facts">

<h2>Facts:</h2>

Chania is a city on the island of Crete

Crete is a Greek island in the Mediterranean Sea

</div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="footer"><p>Resize the browser window to see the responsive effect.</p></div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Responsive Web Design - The Viewport

- Users vertically scroll websites naturally.
- Horizontal scrolling ya zoom-out requirement → poor user experience.
- Content ko hamesha viewport ke width ke andar fit karna chahiye.

Avoid large fixed-width elements

- Fixed width elements jo viewport se wider ho horizontal scroll create karte hain.
- Use relative widths instead: width: 100%;

Do not rely on a specific viewport width

- Content should be flexible for different screen sizes (desktop, tablet, mobile).
- Use relative units (% , fr , em , rem) instead of absolute pixels.

Use CSS media queries for responsiveness

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)
Website: <https://learninghubshahabad.in>
- Apply different styling for small and large screens.
- Avoid large absolute positioning or fixed widths on small screens.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Responsive Layout Example</title>

  <style>

    /* ----- Basic Reset ----- */

    * {

      box-sizing: border-box;

      margin: 0;

      padding: 0;

    }

    body {

      font-family: Arial, sans-serif;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

line-height: 1.6;

}

/* ----- Container ----- */

.container {

max-width: 1200px;

width: 100%;

margin: 0 auto;

padding: 20px;

display: grid;

grid-template-columns: repeat(12, 1fr);

gap: 20px;

}

/* ----- Grid Items ----- */

.item {

background-color: #3498db;

color: white;

text-align: center;

padding: 20px;

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
border-radius: 5px;
```

```
}
```

```
.item-6 { grid-column: span 6; } /* 6 columns */
```

```
.item-4 { grid-column: span 4; } /* 4 columns */
```

```
.item-2 { grid-column: span 2; } /* 2 columns */
```

```
/* ----- Images & Videos ----- */
```

```
img, video {
```

```
max-width: 100%;
```

```
height: auto;
```

```
display: block;
```

```
border-radius: 5px;
```

```
}
```

```
/* ----- Flex Fallback (Optional) ----- */
```

```
@supports (display: flex) and (not display: grid) {
```

```
.container {
```

```
display: flex;
```

```
flex-wrap: wrap;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

.item {

flex: 1 1 100%; /* Full width fallback */

margin-bottom: 20px;

}

}

/* ----- Media Queries ----- */

/* Tablet */

@media (max-width: 1024px) {

.container {

grid-template-columns: repeat(8, 1fr);

}

.item-6 { grid-column: span 8; }

.item-4 { grid-column: span 4; }

.item-2 { grid-column: span 2; }

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

/* Mobile */

```
@media (max-width: 600px) {
```

```
  .container {
```

```
    grid-template-columns: 1fr;
```

```
    padding: 10px;
```

```
  }
```

```
  .item { grid-column: span 1; }
```

```
</style>
```

```
</head>
```

```
<body
```

```
  <header class="container">
```

```
    <div class="item item-12">Header (12 columns)</div>
```

```
  </header>
```

```
  <main class="container">
```

```
    <div class="item item-6">Main Content (6 columns)</div>
```

```
    <div class="item item-4">Sidebar (4 columns)</div>
```

```
    <div class="item item-2">Ads / Extra (2 columns)</div>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="item item-12">
```

```

```

```
</div
```

```
<div class="item item-12">
```

```
<video controls>
```

```
<source src="https://www.w3schools.com/html/mov_bbb.mp4"
```

```
type="video/mp4">
```

Your browser does not support HTML video.

```
</video>
```

```
</div>
```

```
</main>
```

```
<footer class="container">
```

```
<div class="item item-12">Footer (12 columns)</div>
```

```
</footer>
```

```
</body>
```

```
</html>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Responsive Web Design - Building a Grid

View

- A grid view ek organized layout hai jisme items rows aur columns me arrange hote hain.
- Responsive grid view automatically adjust hoti hai screen size ke hisaab se — desktop, tablet, mobile.
- Core principle: fluid grids + media queries + flexible content.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<style>
```

```
* {
```

```
  box-sizing: border-box;
```

```
}
```

```
body {
```

```
  font-family: "Lucida Sans", sans-serif;
```

```
  font-size: 17px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

}

.grid-container {

display: grid;

grid-template-areas:

'header'

'menu'

'main'

'facts'

'footer';

background-color: white;

gap: 10px;

.header {

grid-area: header;

background-color: purple;

text-align: center;

color: #ffffff;

}

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.header > h1 {
```

```
font-size: 40px;
```

```
.menu {
```

```
grid-area: menu;
```

```
}
```

```
.menu ul {
```

```
list-style-type: none;
```

```
margin: 0;
```

```
padding: 0;
```

```
.menu li {
```

```
padding: 8px;
```

```
margin-bottom: 7px;
```

```
background-color: #33b5e5;
```

```
color: #ffffff;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.menu li:hover {
```

```
background-color: #0099cc;
```

```
}
```

```
.content {
```

```
grid-area: main;
```

```
}
```

```
.content > h1 {
```

```
font-size: 30px;
```

```
margin-bottom: 7px;
```

```
.content > p {
```

```
margin-bottom: 7px;
```

```
}
```

```
.facts {
```

```
grid-area: facts;
```

```
border: 1px solid #0099cc;
```

```
background-color: beige;
```

```
padding: 10px;
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.facts > h2 {
```

```
font-size: 20px;
```

```
}
```

```
.facts li {
```

```
margin-bottom: 5px;
```

```
}
```

```
.footer {
```

```
grid-area: footer;
```

```
background-color: #0099cc;
```

```
color: #ffffff;
```

```
text-align: center;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body
```

```
<div class="grid-container"
```

```
<div class="header"><h1>Chania</h1></div>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="menu">
```

```
<ul>
```

```
<li>The Flight</li>
```

```
<li>The City</li>
```

```
<li>The Island</li>
```

```
<li>The Food</li>
```

```
</ul>
```

```
</div>
```

```
<div class="content">
```

```
<h1>The City</h1>
```

```
<p>Chania is the capital of the Chania region on the island of Crete.</p>
```

```
<p>The city can be divided in two parts, the old town and the modern city. The old town is situated next to the old harbour and is the matrix around which the whole urban area was developed.</p>
```

```
<p>Chania lies along the north west coast of the island Crete.</p>
```

```
</div>
```

```
<div class="facts">
```

```
<h2>Facts:</h2>
```

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Chania is a city on the island of Crete

Crete is a Greek island in the Mediterranean Sea

</div>

<div class="footer"><p>A footer.</p></div>

</div>

</body>

</html>

Media Queries

- Media Queries CSS ka feature hai jo allow karta hai ki different screen sizes ya devices ke liye different styles apply kiye jaaye.
- Ye Responsive Web Design ka core tool hai.
- Example: Desktop, Tablet, Mobile ke liye alag-alag layout aur font size set karna.

<!DOCTYPE html>

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<html>
```

```
<head>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<style>
```

```
@media (prefers-reduced-motion: reduce) {
```

```
  * {
```

```
    animation: none !important;
```

```
    transition: none !important;
```

```
  }
```

```
}
```

```
div {
```

```
  width: 100px;
```

```
  height: 100px;
```

```
  background-color: red;
```

```
  position: relative;
```

```
  animation-name: example;
```

```
  animation-duration: 4s;
```

```
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

@keyframes example {

0% {background-color:red; left:0px; top:0px;}

25% {background-color:yellow; left:200px; top:0px;}

50% {background-color:blue; left:200px; top:200px;}

75% {background-color:green; left:0px; top:200px;}

100% {background-color:red; left:0px; top:0px;}

}

</style>

</head>

<body>

<h1>Respect User Preferences</h1>

<p>The prefers-reduced-motion media feature checks if a user has asked to reduce motion, such as animations or transitions.

Use this feature to turn off animations and transitions for the users who has activated this setting on their computer.</p>

<div></div>

</body>

</html>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Responsive Images

Responsive images automatically resize ho jati hain according to viewport size.

- Goal: no horizontal scroll, fast loading, aur proper layout on desktop, tablet, mobile.
- Users ko har device pe clean, readable images dikhni chahiye.

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Simple Responsive Grid</title>

<style>

  body { font-family: Arial; margin:0; padding:0; }

  /* Grid container */

  .grid {

    display: grid;

    grid-template-columns: repeat(12, 1fr);
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

gap: 10px;

max-width: 1200px;

margin: 20px auto;

padding: 10px;

}

/* Grid items */

.item {

background: #3498db;

color: white;

padding: 20px;

text-align: center;

border-radius: 5px;

}

/* Images responsive */

img { max-width: 100%; height: auto; display: block; border-radius: 5px; }

/* Column spans */

.col-6 { grid-column: span 6; }

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.col-4 { grid-column: span 4; }
```

```
.col-12 { grid-column: span 12; }
```

```
/* Media Queries */
```

```
@media (max-width: 768px) {
```

```
  .grid { grid-template-columns: 1fr; }
```

```
  .col-6, .col-4, .col-12 { grid-column: span 1; }
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="grid">
```

```
  <div class="item col-6">Content 1</div>
```

```
  <div class="item col-6">Content 2</div>
```

```
  <div class="item col-4">Content 3</div>
```

LEARNING HUB
SHAHABAD MARKANDA
CALL- 77000 90800

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
<div class="item col-4">Content 4</div>
```

```
<div class="item col-4">Content 5</div>
```

```
<div class="item col-12">Full Width Content</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Responsive Web Design - Videos

- Responsive videos automatically screen size ke hisaab se adjust ho jate hain.
- Goal: no horizontal scroll, videos properly fit ho viewport me desktop, tablet, mobile pe.
- Ye YouTube embeds, MP4 videos, aur other media ke liye use hota

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<style>

* {

box-sizing: border-box;

}

body {

font-family: "Lucida Sans", sans-serif;

font-size: 17px;

}

video {

width: 100%;

height: auto;

}

.grid-container {

display: grid;

grid-template-areas:

'header'

'menu'

'main'

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

'facts'

'footer';

background-color: white;

gap: 10px;

}

.header {

grid-area: header;

background-color: purple;

text-align: center;

color: #ffffff;

}

.header > h1 {

font-size: 40px;

}

.menu {

grid-area: menu;

}

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.menu ul {
```

```
list-style-type: none;
```

```
margin: 0;
```

```
padding: 0;
```

```
}
```

```
.menu li {
```

```
padding: 8px;
```

```
margin-bottom: 7px;
```

```
background-color: #33b5e5;
```

```
color: #ffffff;
```

```
}
```

```
.menu li:hover {
```

```
background-color: #0099cc;
```

```
}
```

```
.content {
```

```
grid-area: main;
```

```
}
```

```
.content > h1 {
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
font-size: 30px;
```

```
margin-bottom: 7px;
```

```
}
```

```
.content > p {
```

```
margin-bottom: 7px;
```

```
}
```

```
.facts {
```

```
grid-area: facts;
```

```
border: 1px solid #0099cc;
```

```
background-color: beige;
```

```
padding: 10px;
```

```
}
```

```
.facts > h2 {
```

```
font-size: 20px;
```

```
}
```

```
.facts li {
```

```
margin-bottom: 5px;
```

```
}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.footer {  
  
    grid-area: footer;  
  
    background-color: #0099cc;  
  
    color: #ffffff;  
  
    text-align: center;  
  
}  
  
@media (min-width: 600px) {  
  
    .header {grid-area: 1 / span 6;}  
  
    .menu {grid-area: 2 / span 1;}  
  
    .content {grid-area: 2 / span 4;}  
  
    .facts {grid-area: 3 / span 6;}  
  
    .footer {grid-area: 4 / span 6;}  
  
}  
  
@media (min-width: 768px) {  
  
    .header {grid-area: 1 / span 6;}  
  
    .menu {grid-area: 2 / span 1;}  
  
    .content {grid-area: 2 / span 4;}  
  
    .facts {grid-area: 2 / span 1;}
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

```
.footer {grid-area: 3 / span 6;}
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="grid-container">
```

```
<div class="header"><h1>Chania</h1></div>
```

```
<div class="menu">
```

```
<ul>
```

```
<li>The Flight</li>
```

```
<li>The City</li>
```

```
<li>The Island</li>
```

```
<li>The Food</li>
```

```
</ul>
```

```
</div>
```

```
<div class="content">
```

```
<h1>The City</h1>
```

```
<p>Chania is the capital of the Chania region on the island of Crete.</p>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>The city can be divided in two parts, the old town and the modern city. The old town is situated next to the old harbour and is the matrix around which the whole urban area was developed.</p>

<p>Chania lies along the north west coast of the island Crete.</p>

<video width="400" controls>

<source src="mov_bbb.mp4" type="video/mp4">

<source src="mov_bbb.ogv" type="video/ogg">

Your browser does not support HTML5 video.

</video>

</div>

<div class="facts">

<h2>Facts:</h2>

Chania is a city on the island of Crete

Crete is a Greek island in the Mediterranean Sea

</div>

<div class="footer"><p>Resize the browser window to see the responsive effect.</p></div>

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

</div>

</body>

</html>

Responsive Web Design - Frameworks

- Frameworks are pre-built CSS, JavaScript, and layout libraries jo responsive websites banane me help karte hain.
- Ye grid systems, components, utilities provide karte hain jisse website mobile-friendly aur cross-browser compatible banti hai.
- Goal: Developers ko fast, consistent, aur tested responsive layout create karna.

```
<!DOCTYPE html>
```

```
<html>
```

```
<title>W3.CSS</title>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
```

```
<body>
```

```
<div class="w3-container w3-blue">
```

```
<h1>W3Schools Demo</h1>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>Resize this responsive page!</p>

</div>

<div class="w3-row-padding">

<div class="w3-third">

<h2>London</h2>

<p>London is the capital city of England.</p>

<p>It is the most populous city in the United Kingdom,
with a metropolitan area of over 13 million inhabitants.</p>

</div

<div class="w3-third">

<h2>Paris</h2>

<p>Paris is the capital of France.</p>

<p>The Paris area is one of the largest population centers in Europe,
with more than 12 million inhabitants.</p>

</div>

<div class="w3-third">

<h2>Tokyo</h2>

<p>Tokyo is the capital of Japan.</p>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>It is the center of the Greater Tokyo Area,

and the most populous metropolitan area in the world.</p>

</div>

</div>

</body>

</html>

Bootstrap

Bootstrap ek popular CSS framework hai jo responsive websites aur web apps banane me help karta hai.

- Ye grid system, pre-designed components, utilities, and JS plugins provide karta hai.
- Mobile-first approach follow karta hai.

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap 5 Example</title>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

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

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link
```

```
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
```

```
<script
```

```
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js">
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<div class="container-fluid p-5 bg-primary text-white text-center">
```

```
<h1>My First Bootstrap Page</h1>
```

```
<p>Resize this responsive page to see the effect!</p>
```

```
</div>
```

```
<div class="container mt-5">
```

```
<div class="row">
```

```
<div class="col-sm-4">
```

```
<h3>Column 1</h3>
```

```
<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>
```

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

<p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>

</div>

<div class="col-sm-4">

<h3>Column 2</h3>

<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>

<p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>

</div>

<div class="col-sm-4">

<h3>Column 3</h3>

<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>

<p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>

</div>

</div>

</div>

</body>

</html>

LEARNING HUB
SHAHABAD MARKANDA
📞 **CALL- 77000 90800**

- All Computer Courses
- English Language Courses
- Brand Marketing & Custom Software Solution
- Academic Tuition(All Subjects)

Website: <https://learninghubshahabad.in>

Learning Hub