

FRONT-END TECHNOLOGY

1 <!DOCTYPE html>
2 <html>
3 | <h1>HTML basics</h1>
4 | <h2>This is heading 1</h2>
5 | <h3>This is heading 2</h3>
6 | <h4>This is heading 3</h4>
7 | <p>My first para.</p>
8 | </body>
9 | </html>

HTML basics

This is heading 1

This is heading 2

This is heading 3

My first para.

1 <!DOCTYPE html>
2 <html>
3 | <body>
4 | | <h1>Own webpage</h1>
5 | | <!--heading-->
6 | |
7 | | <p>My first para.</p>
8 | | <!--paragraph-->
9 | | <i>This is my second paragraph</i>
10 | | click to know<!--link-->
11 | |
12 | | <hr />
13 | |
14 | | | This is
15 | | | An Unordered
16 | | | <!--unordered list-->
17 | | | List
18 | |
19 |
20 | | First we do this,
21 | | and then we do this,
22 | | and then we do this..
23 |
24 | <blockquote>this is a blockquote</blockquote>
25 | <!--blockquote-->
26 | <div>This is div block</div>
27 | <!--div-->
28 | </body>
29 | </html>

Own webpage

My first para.

This is my second paragraph [click to know](#)

- This is
- An Unordered
- List

1. First we do this,
2. and then we do this,
3. and then we do this.

this is a blockquote

This is div block

HTML3.html

```

<html lang="en">
  <head>
    <style>
      .one,
      .three {
        background-color: #111dfd;
      }

      .nav {
        /*navigation specifics*/
        width: 100vw;
        height: 40vh;
        background-color: #1ef606;
        font-size: x-large;
        color: #rgb(18, 11, 11);
        text-align: center;
        margin: 10px 5px;
        display: flex;
        flex-direction: row;
        justify-content: space-around;
        place-items: center;
      }

      .btn {
        /*button specifics*/
        color: #rgb(16, 14, 14);
        background-color: #esf50f;
        height: 40px;
        width: 90px;
        padding: 2px;
        border: 2px solid black;
        text-decoration: none;
      }
    </style>
  </head>

```

Section links

index1.html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <h1>
      Input attributes like text, password, submit, reset, radio, checkbox, button....
    </h1>
    <br>
    <textarea></textarea>
    <textarea rows="4"></textarea>
    <textarea rows="4" cols="30"></textarea>
    <br>
    <br>
    <form>
      <label for="pwd">Password:</label><!--password input attribute-->
      <input type="password" id="pwd" />
    </form>
    <br>
    <br>
    <input type="submit" /><br><!--submit input attribute-->
    <input type="reset" /><br><!--rest input attribute-->
    <input type="radio" name="gender" id="male" /><!--radio input attribute-->
    <label for="male">Male</label>
    <input type="radio" name="gender" id="female" />
    <label for="female">Female</label>
    <label> <input type="checkbox" /> :Bike</label><!--checkbox-->
    <label> <input type="checkbox" /> :Car</label>
    <button>Button</button><!--button input attribute-->
  </body>
</html>

```

Output

This is Tanuja.

Hi

Password: *****

Submit

Reset

Male Female :Bike :Car

index2.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7     <title>Document</title>
8   </head>
9   <body>
10    <h1>
11      Input attributes like number, range, colour, file, date, time, month, week, email.....
12    </h1>
13    <form>
14      <label for="quantity">Quantity (between 1 and 5):</label>
15      <input type="number"
16          id="quantity"
17          name="quantity"
18          min="1"
19          max="5" />
20      </!-- quantity input attribute-->
21    </form>
22    <br />
23    <form>
24      <label for="vol">Volume (between 0 and 50):</label>
25      <input type="range"
26          id="vol"
27          name="vol"
28          min="0"
29          max="50" />
30      </!-- volume input attribute-->
31    </form>
32    <br />
33    <form>
34      <label for="favcolor">Select your favorite color:</label>
35    </form>
36  </body>
37</html>

```

Quantity (between 1 and 5): 4

Volume (between 0 and 50):

Select your favorite color:

Select a file: Resume_Best.pdf

Birthday: 15-10-2004

Select a time: 06:45

Birthday (month and year): October, 2004

Select a week: Week 42, 2004

Enter your email: 2004vts@gmail.com

index3.html

```

2 <html lang="en">
9   <body>
21    <form>
22      <br><br><br>
23      <label for="quantity">Quantity (between 1 and 5):</label>
24      <input type="number"
25          id="quantity"
26          name="quantity"
27          min="1"
28          max="5" />
29      </!-- quantity input restriction-->
30    </form>
31    <br />
32    <form>
33      <label for="fname">First name:</label>
34      <br /><!-- first name input restriction-->
35      <input type="text" id="fname" name="fname" size="50" /><br />
36      <label for="pin">PIN:</label><br /><!-- pin input restriction-->
37      <input type="text" id="pin" name="pin" maxlength="4" size="4" />
38    </form>
39    <br />
40    <form>
41      <label for="fname">First name:</label><br />
42      <input type="text" id="fname" name="fname" value="Tanuja" readonly />
43      <label for="lname">Last name:</label><br />
44      <input type="text" id="lname" name="lname" value="Vasamsetty" />
45    </form>
46    <br />
47    <form>
48      <label for="username">Username:</label>
49      <!-- username input restriction-->
50      <input type="text" id="username" name="username" required />
51    </form>
52    <br />
53  </body>
54</html>

```

First name:

Last name:

Enter a date before 2005-01-01: 15-10-2004

Enter a date after 2000-01-01: 11-03-2025

Quantity (between 1 and 5):

First name:

PIN:

First name:

Last name:

Username:

First name:

PIN:

First name:

Last name:

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Document</title>
</head>
<body>
<h1>Best Website for the Career Guidance for the students </h1>
</body>
<a href="https://jalatechnologies.com/" target="_blank">JALA TECHNOLOGY<br/>
  ><!--this is the target attribute it works like a link-->
</body>
</html>

```

Best Website for the Career Guidance for the students

[JALA TECHNOLOGY](#)

```

<!DOCTYPE html>
<html>
<body>
<h1>Website Display</h1>

<iframe src="https://jalatechnologies.com" title="A job for everyone" />
<!--this is the iframe-->
</iframe>
<marquee>Hello, Welcome to the best website</marquee>
<!-- this is the marquee-->
</body>
</html>

```

Website Display



Welcome to the best website

index5.html

```

1 <!DOCTYPE html>
2 <html>
3 | <body>
4 | | <h1>Website Display</h1>
5 |
6 | <iframe src="https://jalatechnologies.com" title="A job for everyone"
7 | | >!--this is the iframe-->
8 | </iframe>
9 | <marquee>Hello, Welcome to the best website</marquee>
10| >!-- this is the marquee-->
11| </body>
12</html>
```

127.0.0.1:5500/HTML5.1/index5.html

Website Display

Hello, Welcome to the best website

Semantic1.html

```

1 <!DOCTYPE html>
2 <html>
3 | <head>
4 | | <title>Div tag</title>
5 |
6 | <style>
7 | | div {
8 | | | /*this is the div specifics*/
9 | | | color: black;
10| | | background-color: #009900;
11| | | margin: 2px;
12| | | font-size: 25px;
13| | }
14| </style>
15| </head>
16|
17| <body>
18| | <div>Hello</div>
19| | <!--theses are the div blocks-->
20| | <div>Hearty Welcome to our website</div>
21| | <div>Hope you will have a great time</div>
22|
23| <h2>This is a span tag</h2>
24|
25| <p>
26| | <span style="background-color: lightgreen">The <span> tag</span> is
27| | The <span> tag is easily styled by CSS or manipulated with JavaScript
28| | Lorem</span>
29| |
30| | Lorem ipsum <span style="background-color: lightblue">articles</span>
31| | Lorem ipsum dolor, sit amet consectetur adipisicing.
32| </p>
33| </body>
34</html>
```

127.0.0.1:5500/HTML5.2/Semantic1.html

Div tag

Hello

Hearty Welcome to our website

Hope you will have a great time

This is a span tag

The tag is an inline container used to mark up a part of a text, or a part of a document. The tag is easily styled by CSS or manipulated with JavaScript using the class or id attribute. [Lorem ipsum](#) [articles](#) [Lorem ipsum dolor, sit amet consectetur adipisicing.](#)

webdevelopment

Semantic2.html

```

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h1>Article and Table semantic elements</h1>
5
6     <article>
7       <!--this is the article block-->
8       <h2>Lorem, ipsum dolor.</h2>
9       <p>
10        Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe exp
11          optio labore quisquam numquam ipsam dignissimos incidentum quis.
12       </p>
13     </article>
14
15     <article>
16       <h2>Lorem, ipsum.</h2>
17       <p>
18        Lorem ipsum dolor sit amet consectetur adipisicing elit. Molestiae
19          voluptatibus enim cumque cum quae nihil, quis fuga itaque deserunt
20            exercitatem!
21       </p>
22     </article>
23
24     <article>
25       <h2>Lorem ipsum dolor sit amet.</h2>
26       <p>
27        Lorem ipsum dolor sit, amet consectetur adipisicing elit. Similique
28          accusamus deserunt aspernatur qui odit eaque velit perferendis!
29       </p>
30     </article>
31   <table>
32     <!--table block makes a table with the data entered-->
33     <tr>
34       <th>Company</th>
35       <th>Contact</th>
36       <th>Country</th>
37     </tr>

```

Ln 25, Col 43 Spaces: 4 UTF-8 CRLF HTML Port : 5500

Article and Table semantic elements

Lorem, ipsum dolor.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe explicabo optio labore quisquam numquam ipsam dignissimos incidentum quis.

Lorem, ipsum.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Molestiae voluptatibus enim cumque cum quae nihil, quis fuga itaque deserunt exercitatem!

Lorem ipsum dolor sit amet.

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Similique accusamus deserunt aspernatur qui odit eaque velit perferendis!

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico

BAR - BEN
Live - HT

Document

Semantic3.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7     <title>Document</title>
8   </head>
9   <body>
10    <section>
11      <p>Top 3 trending stories</p>
12      <section>
13        <p>News</p>
14        <article>Story 1</article>
15        <article>Story 2</article>
16        <article>Story 3</article>
17      </section>
18      <section>
19        <p>Sport</p>
20        <article>Story 1</article>
21        <article>Story 2</article>
22        <article>Story 3</article>
23      </section>
24    </section>
25    <br />
26    <aside>
27      <p>
28        This is a sidebar, for example a terminology definition or a short
29          background to a historical figure.
30      </p>
31    </aside>
32    <figure>
33      
37      <figcaption>Cover art for Middle-earth: Shadow of Mordor</figcaption>

```

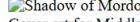
Ln 40, Col 13 Spaces: 4 UTF-8 CRLF HTML Port : 5500

Story 2
Story 3

Sport

Story 1
Story 2
Story 3

This is a sidebar, for example a terminology definition or a short background to a historical figure.

 Shadow of Mordor
Cover art for Middle-earth: Shadow of Mordor

© Company A

Company A

- [Home](#)
- [About](#)
- [Contact us](#)

Heading 1

Subheading 1

Subheading 2

- [Home](#)
- [About](#)
- [Contact us](#)

Tuesday, 12 March 2025

23°C
Mostly clear

The image shows a Windows desktop environment with two code editors and their respective browser outputs.

Top Editor:

- Title Bar:** webdevelopment
- File List:** # css1.css (selected), css1html.html
- Code:**

```
CSS1 > # css1.css > h1
1 body {
2     background-color: lightblue; /* this line of code make the background blue*
3 }
4
5 h1 {
6     color: navy; /*this makes the text navy blue*/
7     margin-left: 20px;
8 }
```
- Status Bar:** Ln 8, Col 4 Spaces: 4 UTF-8 CRLF CSS Port: 5500
- System Tray:** 23°C Mostly clear
- Taskbar:** Search, File Explorer, Edge, Google Chrome, VS Code

Top Browser Output:

- Title Bar:** Simple HTML and CSS
- URL:** 127.0.0.1:5500/CSS1/css1html.html
- Content:** Welcome to the Simple HTML and CSS Example
- Description:** This is an example of connecting an external CSS file to an HTML document.
- System Tray:** ENG IN 00:35 12-03-2025

Bottom Editor:

- Title Bar:** webdevelopment
- File List:** # css2.css (selected), css2html.html
- Code:**

```
CSS1 > # css2.css > ...
1 body {
2     background-image: url("https://cdn-1.motorsport.com/images/mgl/0o0jxd7i
3     background-color: #f8f0f0;
4 }
5 
```
- Status Bar:** Ln 5, Col 3 Spaces: 4 UTF-8 CRLF {} CSS Port: 5500
- System Tray:** 23°C Mostly clear
- Taskbar:** Search, File Explorer, Edge, Google Chrome, VS Code

Bottom Browser Output:

- Title Bar:** 127.0.0.1:5500/CSS1/css2html.html
- Content:** Hello
- System Tray:** ENG IN 00:42 12-03-2025

The image shows a Windows desktop environment with two code editors and their respective browser outputs.

Top Editor:

- Title Bar:** webdevelopment
- File:** # css3.css
- Content:**

```
1 div {  
2     border-style: groove; /* defining border style */  
3     border-width: 7px; /* defining border size */  
4     border-color: coral; /* defining border colour */  
5 }
```
- Status Bar:** Ln 5, Col 4 Spaces: 4 UTF-8 CRLF CSS Port : 5500

Bottom Editor:

- Title Bar:** webdevelopment
- File:** # css4.css
- Content:**

```
1 div {  
2     height: 200px; /*height in pixels*/  
3     width: 50%; /* width in %*/  
4     background-color: rgb(231, 66, 20);  
5 }
```
- Status Bar:** Ln 6, Col 3 Spaces: 4 UTF-8 CRLF {} CSS Port : 5500

Browsers:

- Top Browser:** Address: 127.0.0.1:5500/CSS1/css3html.html
Content:

A Heading with a groove border

A div element with a groove border.
- Bottom Browser:** Address: 127.0.0.1:5500/CSS1/css4html.html
Content:

Successfully set the height and width of elements in px and %

This div element has a height of 200px and a width of 50%.

System Status: 23°C Mostly clear, ENG IN, 00:49, 12-03-2025

css3.css

```
1 div {  
2   border-style: groove; /* defining border style */  
3   border-width: 7px; /* defining border size */  
4   border-color: coral; /* defining border colour */  
5 }
```

A Heading with a groove border

A div element with a groove border.

css2a.css

```
1 table {  
2   border-collapse: collapse;  
3   border: 1px solid #rgb(50, 9, 214);  
4 }  
5  
6 th,  
7 td {  
8   border: 1px solid #rgb(9, 244, 87);  
9 }  
10  
11 table.b {  
12   table-layout: fixed; /* specifying table as fixed entity*/  
13   width: 180px;  
14 }  
15  
16 table.c {  
17   table-layout: auto; /* specifying table as auto entity*/  
18   width: 100%;  
19 }
```

table-layout: fixed and none

table-layout: fixed; width: 180px:

1. Lorem, ipsum.	2. Lorem, ipsum.	3. Lorem, ipsum.
4. Lorem, ipsum dolor.	5. Lorem, ipsum dolor.	6. Lorem, ipsum dolor.
7. Lorem, ipsum dolor.	8. Lorem, ipsum dolor.	9. Lorem, ipsum dolor.
10. Lorem, ipsum dolor.	11. Lorem, ipsum dolor.	12. Lorem, ipsum dolor.

table-layout: auto; width: 100%:

1. Lorem, ipsum.	2. Lorem, ipsum.	3. Lorem, ipsum.
1. Lorem, ipsum dolor.	2. Lorem, ipsum dolor.	3. Lorem, ipsum dolor.
4. Lorem, ipsum dolor.	5. Lorem, ipsum dolor.	6. Lorem, ipsum dolor.
7. Lorem, ipsum dolor.	8. Lorem, ipsum dolor.	9. Lorem, ipsum dolor.

css2b.css
css2bhtml.html

```

1 ul.a {
2   list-style-type: circle; /*specifying list style icons*/
3 }
4 ul.b {
5   list-style-type: square; /*specifying list style icons*/
6 }
7 ol.c {
8   list-style-type: upper-roman; /*specifying list style icons*/
9 }
10 ol.d {
11   list-style-type: lower-alpha; /*specifying list style icons*/
12 }
13

```

The list-style-type: ordered and unordered

unordered lists:

- Coffee
- Tea
- Coca Cola

ordered lists:

- I. Coffee
- II. Tea
- III. Coca Cola

- a. Coffee
- b. Tea
- c. Coca Cola

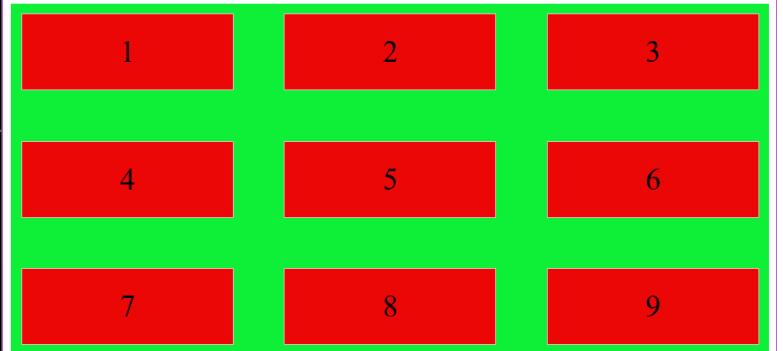
Welcome
css2c.css
css2chtml.html

```

1 .grid-container {
2   display: grid;
3   row-gap: 50px;
4   grid-template-columns: auto auto auto;
5   background-color: #10ee31;
6   padding: 10px;
7 }
8 .grid-container {
9   display: grid;
10  column-gap: 50px;
11  grid-template-columns: auto auto auto;
12  background-color: #0eef37;
13  padding: 10px;
14 }
15 .grid-item {
16   background-color: #ec0707;
17   border: 1px solid #edf1f4cc;
18   padding: 20px;
19   font-size: 30px;
20   text-align: center;
21 }
22
23

```

Grid types



ASTON MARTIN

F1 RACING TEAM

SMART LOOK



```

body, html {
  height: 100%;
}
.hero-image {
  background-image: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 1), url("https://d2n9h2wits23hf.cloudfront.net/image/v1/static/60579494320"));
  height: 50%;
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;
  position: relative;
}

/* this is to specify the text attributes on the image
like alignment size colour etc*/
.hero-text {
  text-align: left;
  position: absolute;
  top: 20%;
  left: 20%;
  transform: translate(-50%, -50%);
  color: #rgb(247, 246, 248);
}

```

JALA TECH

JAVA

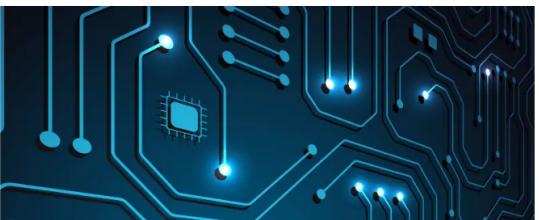
JAVASCRIPT

SQL

FRONT END

About

Lore ipsum dolor sit, amet consectetur adipisicing elit. Repellat eum porro sint blanditiis nulla vero repellendus quaerat possimus voluptate, quo itaque maiores ut in ipsa corrupti nobis amet ex cum optio odit. Magnam expedita cum deserunt quos tenetur autem dolorum!



VS Code Editor

```
CSS3 > # style1.css ...
1 .pic {
2   width: 1920px;
3   height: 1080px;
4   opacity: 1; /*pic opacity*/
5   filter: alpha(opacity=100);
6   background: url(<https://www.formula1.com/content/dam/fom-website/manuals/>);
7   | no-repeat;
8 }
9 .pic:hover {
10   opacity: 0.5; /*pic opacity when hovering the mouse*/
11   filter: alpha(opacity=30);
12 }
13 .pic:hover {
14   /*pic border shadow when hovering*/
15   -moz-box-shadow: 0 0 150px #rgb(134, 255, 64);
16   -webkit-box-shadow: 0 0 150px #rgb(134, 255, 64);
17   box-shadow: 0 0 150px #rgb(134, 255, 64);
18 }
19 p {
20   color: #navy;
21   text-transform: uppercase;
22 }
23 }
```

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF {} CSS Port: 5500

Browser Preview

WHEN HOVERING THE PICTURE'S OPACITY CHANGES

AND ANIMATION

VS Code Explorer

WEBDEVELOPMENT

- > CSS1
- > CSS2
- > CSS3
 - # style1.css
 - ▷ style1html.html
- # style2.css
- ▷ style2html.html
- > HTML5
- > HTML5.1
- > HTML5.2

OUTLINE

TIMELINE

MySQL

Ln 32, Col 17 Spaces: 4 UTF-8 CRLF CSS Port: 5500

Browser Preview

Animations and Paginations

Hovering over numbers changes the colour

« 1 2 3 4 5 6 »

The screenshot shows a code editor and a browser side-by-side. The code editor on the left displays CSS3 rules for position properties:

```
CSS3 > # style3.css > div.relative
1 div.static {
2     position: static;
3     border: 3px solid #1919f6;
4 }
5 div.relative {
6     position: relative;
7     left: 30px;
8     border: 3px solid #1919f6;
9 }
10 div.fixed {
11     position: fixed;
12     bottom: 1000;
13     right: 500;
14     width: 300px;
15     height: 200px;
16     border: 3px solid #42f619;
17 }
18 div.relative {
19     position: relative;
20     width: 400px;
21     height: 200px;
22     border: 3px solid #340add;
23 }
24 div.absolute {
25     position: absolute;
26     top: 80px;
27     right: 0;
28     width: 200px;
29     height: 100px;
30     border: 3px solid #2c0ce1;
31 }
32 div.sticky {
33     position: -webkit-sticky;
34     position: sticky;
35     top: 0;
36     padding: 5px;
37     background-color: #1a1aeb;
```

The browser window on the right shows the visual output of these styles. It includes sections for **Static**, **Relative**, and **Fixed**, each with a sample box and a descriptive text.

The screenshot shows a code editor and a browser side-by-side. The code editor on the left displays CSS4 rules for the .ex1 class:

```
CSS3 > # style4.css > .ex1
1 body {
2     background-color: #1ae40b;
3 }
4 #myDIV {
5     /*this is the scroll text box*/
6     height: 300px;
7     background-color: #0be5f0;
8 }
9
10 .ex1 {
11     /*this is the text column itself*/
12     background-color: #rgb(241, 204, 240);
13     width: 150px;
14     height: 100px;
15     overflow: auto;
16 }
```

The browser window on the right shows a green header with the title "Handling overflow property by using scroll". Below the header, there is a text area with a scroll bar. A tooltip on the scroll bar reads: "Overflow matter is being handled by using the scrolling option in the html. So for that this". The status bar at the bottom indicates the date and time as 12-03-2025 and 08:29.

The screenshot displays a web development setup with two main windows:

- Top Left Window:** A code editor showing CSS3 styles for opacity. The code includes:

```
1 img {  
2     /*opacity when the page loads */  
3     opacity: 0.3;  
4 }  
5  
6 img:hover {  
7     /*opacity when you hover */  
8     opacity: 1;  
9 }  
10
```
- Top Right Window:** A browser showing the result of the CSS. It features three cat images with a caption: "Hover over the image to make it less opaque".
- Bottom Left Window:** A code editor showing CSS4 styles for a table effect. The code includes:

```
1 table {  
2     border-collapse: separate;  
3     border-spacing: 0;  
4 }  
5 /*here is the code for changing the colour of block when mouse  
is hovering over it */  
6 tr {  
7     position: relative;  
8     z-index: 1;  
9     top: var(--rowCount);  
10 }  
11  
12 td {  
13     border: solid 1px black;  
14     border-style: solid none;  
15     padding: 10px;  
16 }  
17  
18 td:first-child {  
19     border-left-style: solid;  
20     border-top-left-radius: 10px;  
21     border-bottom-left-radius: 10px;  
22 }  
23  
24 td:last-child {  
25     border-right-style: solid;  
26     border-bottom-right-radius: 10px;  
27     border-top-right-radius: 10px;  
28 }  
29  
30 tr:last-child td {  
31     border-bottom: solid 1px black;  
32 }  
33  
34 tr:hover {  
35     z-index: 10;  
36 }
```
- Bottom Right Window:** A browser showing the result of the CSS4 table effect. It displays a grid of six rounded rectangular boxes labeled "One", "Two", and "Three".

The taskbar at the bottom shows various application icons and system status.

effect2html.html

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <style>
5       h2.a {
6         /*here is the code for making an element visible or hidden as you .
7         visibility: visible;
8       }
9
10    h2.b {
11      visibility: hidden;
12    }
13    tr.collapse {
14      visibility: collapse;
15    }
16    table,
17    td {
18      border: 1px solid black;
19    }
20  </style>
21 </head>
22 <body>
23   <h1>Applying different visibility options</h1>
24
25   <h2 class="a">This heading is visible</h2>
26
27   <h2 class="b">This heading is hidden</h2>
28
29   <p>hidden heading still takes up space on the page</p>
30 <table>
31   <tr>
32     <td>N</td>
33     <td>Tanu</td>
34   </tr>
35   <tr class="collapse">
36     <td>Tanu</td>
37     <td>N</td>

```

Applying different visibility options

This heading is visible

hidden heading still takes up space on the page

N	Tanu
---	------

effect3.css

```

1 html {
2   scroll-behavior: smooth; /* this is specifying the scroll behaviour*/
3 }
4 body {
5   font: 14px/2 Georgia, serif;
6 }
7
8 #page-wrap {
9   max-width: 500px;
10  margin: 1rem auto;
11  padding: 1rem;
12 }
13
14 h1,
15 h2 {
16   line-height: 1.2;
17 }
18
19 p,
20 ul,
21 h1 {
22   margin: 0 0 1rem 0;
23 }
24

```

Smooth Page Scrolling

- [Scroll to Bottom](#)

Section One

C (pronounced /si:/ – like the letter c)[6] is a general-purpose programming language. It was created in the 1970s by Dennis Ritchie and remains very widely used and influential. By design, C's features cleanly reflect the capabilities of the targeted CPUs. It has found lasting use in operating systems code (especially in kernels[7]), device drivers, and protocol stacks, but its use in application software has been decreasing.[8] C is commonly used on computer architectures that range from the largest supercomputers to the smallest microcontrollers and embedded systems.

A successor to the programming language B, C was originally developed at Bell Labs by Ritchie between 1972 and 1973 to construct utilities running on Unix. It was applied to re-implementing the kernel of the Unix operating system.[9] During the 1980s, C gradually gained popularity. It has become one of the most widely used programming languages,[10][11] with C compilers available for practically all modern computer architectures and operating systems. The book *The C Programming Language*, co-authored by the original language designer, served for many years as the de facto standard for the language.[12][13] C has been standardized since 1989 by the American National Standards Institute (ANSI) and, subsequently, jointly by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

C is an imperative procedural language, supporting structured programming, lexical variable scope, and recursion, with a static type system. It was designed to be compiled to provide low-level access to memory and language constructs that map efficiently to machine instructions, all with minimal runtime support. Despite its low-level capabilities, the language was designed to encourage cross-platform programming. A standards-compliant C program written with portability in mind can be compiled for a wide variety of computer platforms and operating systems with few changes to its source code.

C is an imperative, procedural language in the ALGOL tradition. It has a static type system. In C, all executable code is contained within subroutines (also called "functions", though not in the sense of functional programming). Function parameters are passed by value, although arrays are passed as pointers, i.e. the address of the first item in the array. Pass-by-reference is simulated in C by explicitly passing pointers to the thing being referenced.

Section Two

Effect 4: CSS padding and margin

HTML:

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7     <title>Document</title>
8   </head>
9   <link rel="stylesheet" href="effect4.css" />
10
11 <body>
12   <div id="div-0">content (padding: 20px)</div>
13   <!-- this is specifying the padding dimensions-->
14   <br />
15   <div id="div-1">content (padding-top: 20px)</div>
16   <br />
17   <div class="container">
18     <div class="child" id="div-2">(margin: 20px 40px 60px);</div>
19     <!-- this is specifying the margin parameters-->
20   </div>
21   <br />
22
23   <div class="container">
24     <div class="child" id="div-3">(margin:);</div>
25   </div>
26   <br />
27 </body>
28 </html>
29

```

Output:

Effect 5: Multiple Image Backgrounds

HTML:

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <style>
5       #example1 {
6         /* here we attach the 2 images that are to be used as backgrounds*/
7         background-image: url(http://static.demilked.com/wp-content/upload
8         | url(https://www.pngkit.com/png/detail/174-1747550_rainbow-light-);
9         background-position: right bottom, left top;
10        background-size: 300px 500px;
11        background-repeat: no-repeat, repeat;
12        padding: 250px;
13      }
14    </style>
15  </head>
16  <body>
17    <h1>Multiple Image Backgrounds with different sizes</h1>
18
19    <div id="example1">
20      <h1>Lorem Ipsum Dolor</h1>
21      <p>
22        Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam
23        nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat
24        volutpat.
25      </p>
26      <p>
27        Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper
28        suscipit lobortis nisl ut aliquip ex ea commodo consequat.
29      </p>
30    </div>
31  </body>
32 </html>

```

Output:

'this' keyword and also making text disappear

RAHUL KOPPULA

```

1 <!DOCTYPE html>
2 <html>
3 | <body>
4 | | <h1>'this' keyword and also making text disappear</h1>
5 |
6 | <p id="demo"></p>
7 | <button onclick="fun()" id="btn">Click me!</button>
8 |
9 |
10<script>
11|   function fun() {
12|     document.getElementById("demo").style.display = "none";
13|   }
14|
15|   const person = {
16|     firstName: "RAHUL",
17|     lastName: "KOPPULA",
18|     id: 5566,
19|     fullName: function () {
20|       return this.firstName + " " + this.lastName;
21|     },
22|   };
23|
24|   document.getElementById("demo").innerHTML = person.fullName();
25| </script>
26| </body>
27| </html>

```

127.0.0.1:5500/J51/js1a.html

'this' keyword and also making text disappear

RAHUL KOPPULA

call() and apply()

Rahul K, Hyd, India

```

1 <!DOCTYPE html>
2 <html>
3 | <body>
4 | | <h2>call() and apply()</h2>
5 |
6 | <p id="demo"></p>
7 |
8<script>
9|   const person = {
10|     fullName: function (city, country) {
11|       return (
12|         this.firstName + " " + this.lastName + ", " + city + ", " + co
13|       );
14|     },
15|   };
16|
17|   const person1 = {
18|     firstName: "Rahul",
19|     lastName: "K",
20|   };
21|
22|   // difference b/w call and apply is that apply treats it as an array
23|   document.getElementById("demo").innerHTML = person.fullName.apply(
24|     person1,
25|     ["Hyd", "India"]
26|   );
27|   document.getElementById("demo").innerHTML = person.fullName.call(
28|     person1,
29|     "Hyd",
30|     "India"
31|   );
32| </script>
33| </body>
34| </html>

```

127.0.0.1:5500/J51/js1b.html

call() and apply()

Rahul K, Hyd, India

COUNTER

Counter button

[Click Here!](#)

Button Clicked 8 Times

JS1 > js1c.html

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
5     <title>COUNTER</title>
6   </head>
7
8   <body>
9     <h4>Counter button</h4>
10
11    <button id="btn">Click Here!</button>
12
13    <p>Button Clicked <span id="display">0</span> Times</p>
14
15    <script type="text/javascript">
16      var count = 0;
17      var btn = document.getElementById("btn");
18      var disp = document.getElementById("display");
19
20      btn.onclick = function () {
21        count++;
22        disp.innerHTML = count;
23      };
24    </script>
25  </body>
26</html>

```


JS1 > js1d.html

Getter and Setter Counter

50

JS1 > js1d.html

```

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h2>Getter and Setter Counter</h2>
5
6     <p id="demo"></p>
7
8     <script>
9       // Define an object
10      const obj = { counter: 0 };
11
12      // Define Setters and Getters
13      Object.defineProperty(obj, "reset", {
14        get: function () {
15          | this.counter = 0;
16        },
17      });
18      Object.defineProperty(obj, "increment", {
19        get: function () {
20          | this.counter++;
21        },
22      });
23      Object.defineProperty(obj, "decrement", {
24        get: function () {
25          | this.counter--;
26        },
27      });
28      Object.defineProperty(obj, "add", {
29        set: function (value) {
30          | this.counter += value;
31        },
32      });
33      Object.defineProperty(obj, "subtract", {
34        set: function (value) {
35          | this.counter -= value;
36        },
37      });

```

Add properties with object prototype

My nationality is Indian

```

1 <!DOCTYPE html>
2 <html>
3   <body>
4     <h2>Add properties with object prototype</h2>
5     <p id="demo"></p>
6
7     <script>
8       function Person(first, last, age, eye) {
9         this.firstName = first;
10        this.lastName = last;
11        this.age = age;
12        this.eyeColor = eye;
13      }
14
15      Person.prototype.nationality = "Indian";
16
17      const me = new Person("Rahul", "K", 21, "black");
18      document.getElementById("demo").innerHTML =
19        "My nationality is " + me.nationality;
20
21     </script>
22   </body>
23 </html>
24

```

File Edit Selection View Go Run Terminal Help ← → 🔍 webdevelopment ⚡ 127.0.0.1:5500 11:14 ENG IN 12-03-2025

person.js

```

1 const person = {
2   firstName: "rahul",
3   lastName: "koppula",
4 };
5
6 // first way: using dot notation
7 console.log(person.firstName); // rahul
8 console.log(person.lastName); // koppula
9
10 // second way: using bracket notation
11 console.log(person["firstName"]); // rahul
12 console.log(person["lastName"]); // koppula
13

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] node "d:\webdevelopment\person.js"
rahul
koppula
rahul
koppula

[Done] exited with code=0 in 0.116 seconds

Code language not supported or defined.

OUTLINE TIMELINE MYSQL

File Edit Selection View Go Run Terminal Help ← → 🔍 webdevelopment ⚡ 127.0.0.1:5500 11:38 ENG IN 12-03-2025

The screenshot displays a dual-monitor setup for web development. On the left monitor, a code editor shows the content of `js2a.html`. The code includes a `for/in` loop that iterates over the properties of an object named `person`, concatenating each key-value pair into a string `txt`. The resulting string is then assigned to the innerHTML of a paragraph element with id `demo`. On the right monitor, a browser window titled "For/In Loop" shows the output of the code, which is the string "fname: Rahul lname: Koppula age: 21". Below the browser, a status bar indicates the file is at line 14, column 35, and the port is 5500. The taskbar at the bottom shows various application icons.

For/In Loop

The for in statement loops through the properties of an object:

Rahul Koppula 21

```
<!DOCTYPE html>
<html>
<body>
<h2>For/In Loop</h2>
<p>The for in statement loops through the properties of an object:</p>
<p id="demo"></p>
<script>
const person = { fname: "Rahul", lname: "Koppula", age: 21 };

let txt = "";
for (let x in person) {
    // for in loop is used here, it loops through the key and value of
    txt += person[x] + " ";
}

document.getElementById("demo").innerHTML = txt;
</script>
</body>
</html>
```

LN 14, Col 35 Spaces: 2 UTF-8 CRLF HTML ⚙ Port : 5500

30°C Haze

Search

127.0.0.1:5500/JS2/js2a.html

11:41 ENG IN 12-03-2025

Hoisting

8 undefined

```
<!DOCTYPE html>
<html>
<body>
<h2>Hoisting</h2>
<p id="demo"></p>
<script>
var x = 8; // Initializing x
var y; // Declaring y

elem = document.getElementById("demo");
elem.innerHTML = x + " " + y; // this is to display both x and y

y = 3; // assigning an integer to y
</script>
</body>
</html>
```

LN 18, Col 1 Spaces: 2 UTF-8 CRLF HTML ⚙ Port : 5500

30°C Haze

Search

127.0.0.1:5500/JS2/js2c.html

11:41 ENG IN 12-03-2025

js2d.html

JS2 > js2e.html > html > body

```

1  <!DOCTYPE html>
2  <html>
3  | <body>
4  | | <h2>JavaScript Array Sort Reverse</h2>
5  |
6  | <p>The reverse() method reverses the elements in an array.</p>
7  |
8  | | By combining sort() and reverse() you can sort an array in descending
9  | | order:
10 | |
11 | <p id="demo1"></p>
12 | <p id="demo2"></p>
13 |
14 |
15 <script>
16 | // Create and display an array:
17 | const fruits = [
18 | | "Banana",
19 | | "Orange",
20 | | "Apple",
21 | | "Mango",
22 | | "Watermelon",
23 | | "Grapes",
24 | | "Papaya",
25 | ];
26 | document.getElementById("demo1").innerHTML = fruits;
27 |
28 | // First sort the array
29 | fruits.sort();
30 |
31 | // Then reverse it:
32 | fruits.reverse();
33 |
34 | document.getElementById("demo2").innerHTML = fruits;
35 |
36 </script>
37 </body>
38 </html>
```

Ln 11, Col 1 Spaces: 2 UTF-8 CRLF HTML Port: 5500

127.0.0.1:5500/JS2/js2e.html

JavaScript Array Sort Reverse

The reverse() method reverses the elements in an array.

By combining sort() and reverse() you can sort an array in descending order:

Banana,Orange,Apple,Mango,Watermelon,Grapes,Papaya
Watermelon,Papaya,Orange,Mango,Grapes,Banana,Apple

js2d.html

JS2 > js2d.html > ...

```

1  <!DOCTYPE html>
2  <html>
3  | <body>
4  | | <p>
5  | | | Demonstrating that use strict will throw an error when variable is not
6  | | | declared
7  | | </p>
8  |
9  <script>
10 | x = 3; // This will not cause an error as it is out of the function!
11 | myFunction();
12 |
13 | function myFunction() {
14 | | "use strict";
15 | | y = 4; // This will cause an error as y is not defined.
16 | }
17 </script>
18 </body>
19 </html>
```

Ln 20, Col 1 Spaces: 2 UTF-8 CRLF HTML Port: 5500

127.0.0.1:5500/JS2/js2d.html

Demonstrating that use strict will throw an error when variable is not declared

JS3 > js3a.html

```

1  <!DOCTYPE html>
2  <html>
3  |<body>
4  |<h2>Event listener to a button to show date</h2>
5
6  |<button id="myBtn">Try it</button>
7
8  |<p id="demo"></p>
9
10 |<script>
11 || document.getElementById("myBtn").addEventListener("click", displayDate)
12 |
13 || function displayDate() {
14 ||| document.getElementById("demo").innerHTML = Date();
15 |}
16 |</script>
17 |</body>
18 |</html>
19

```

127.0.0.1:5500/JS3/js3a.html

Event listener to a button to show date

[Try it](#)

Wed Mar 12 2025 11:47:42 GMT+0530 (India Standard Time)

JS3 > js3b.html

```

1  <!DOCTYPE html>
2  <html>
3  |<head>
4  |<script>
5  || function validateForm() {
6  ||| var x = document.forms["myForm"]["fname"].value;
7  ||| if (x == "" || x == null) {
8  |||| alert("Name must be filled out");
9  |||| return false;
10 ||| }
11 |</script>
12 |</head>
13 |<body>
14 |<h2>JS validation</h2>
15
16 |<form
17 || name="myForm"
18 || action="/action_page.php"
19 || onsubmit="return validateForm()"
20 || method="post"
21 || required
22 |>
23 || Name: <input type="text" name="fname" />
24 || <input type="submit" value="Submit" />
25 |</form>
26 |</body>
27 |</html>
28

```

127.0.0.1:5500/JS3/js3b.html

JS validation

Name: [Submit](#)

VS Code Editor (Top Left):

```
<!DOCTYPE html>
<html>
<body>
<h2>console.log() debugging</h2>
<p>F12 or ctrl+shift+i > sources</p>
<script>
a = 8;
b = 4;
c = a + b;
console.log(c);
</script>
</body>
</html>
```

Browser DevTools (Top Right):

Console tab:

```
console.log()
debugging
```

Elements tab:

```
<!DOCTYPE html>
<html>
<head></head>
<body> -- $0
<h2>console.log() debugging</h2>
<p>F12 or ctrl+shift+i > sources</p>
<script> a = 8; b = 4; c = a + b; console.log(c); </script>
<!-- Code injected by live-server -->
</script></body>
```

Layout tab:

- Show line numbers
- Show track sizes
- Show area names
- Extend grid lines

No grid layouts found on this page

Flexbox tab:

No flexbox layouts found on this page

Console tab (Bottom):

- Console
- AI assistance
- What's new

What's new in DevTools 134

See all new features

See also the highlights from Chrome 130-132

System Tray (Bottom):

- 9° 30°C Haze
- Search
- File Explorer
- Taskbar icons
- Network status
- Date/Time: 12-03-2025

VS Code Editor (Bottom Left):

```
<!DOCTYPE html>
<html>
<body>
<h2>Accessing JSON obj with . notation</h2>
<p id="demo"></p>
<script>
const myJSON = '{"name":"John", "age":30, "car":null}';
const myObj = JSON.parse(myJSON);
document.getElementById("demo").innerHTML = myObj.name;
</script>
</body>
</html>
```

Browser DevTools (Bottom Right):

Console tab:

```
Accessing JSON obj with . notation
```

Elements tab:

```
John
```

Layout tab:

Console tab (Bottom):

- Console
- AI assistance
- What's new

System Tray (Bottom):

- 9° 30°C Haze
- Search
- File Explorer
- Taskbar icons
- Network status
- Date/Time: 12-03-2025

The screenshot shows a developer's workspace with a code editor and a browser window side-by-side.

Code Editor:

- Title Bar:** webdevelopment
- File:** js3d.html
- Content:** A snippet of JavaScript code for managing cookies. It includes functions for setting a cookie with an expiration date and getting a cookie by name. It also includes a checkCookie function that prompts the user for their name if no cookie is found.
- Status Bar:** Ln 18, Col 39, Spaces: 4, UTF-8, CRLF, HTML, Port: 5500

Browser Window:

- Title Bar:** 127.0.0.1:5500/J3/j3d.html
- Content:** A simple alert dialog box with the message "127.0.0.1:5500 says Welcome again tanu". An "OK" button is visible at the bottom right of the dialog.
- Status Bar:** 11:50, ENG IN, 12-03-2025