

HTML & CSS

What is CSS Grid?

CSS Grid Layout is a CSS module designed for laying out elements in rows and columns. Unlike Flexbox, which is mainly 1-dimensional (row or column), Grid allows for simultaneous control over both dimensions.

An element becomes a grid container when you apply display: grid

Example

in html

```
<div class="container">
  <div class="item1">Item 1</div>
  <div class="item2">Item 2</div>
  <div class="item3">Item 3</div>
  <div class="item4">Item 4</div>
</div>
```

in Css

```
<style>
.container {
  display: grid;
  /* 1fr =225px */
  /* grid-template-columns: 2fr 6fr 4fr 3fr; */
  grid-template-columns: repeat(2, 6fr);
  grid-template-rows: 100px 100px;
  background-color: red;
  grid-gap: 15px;
}

.item1{
  background-color: rgb(0, 255, 132);
}

.item2{
  background-color: rgb(47, 0, 255);
}

.item3{
  background-color: rgb(0, 255, 94);
}

.item4{
  background-color: rgb(142, 122, 22);
}
</style>
```

What is Table?

An HTML table is used to display data in rows and columns.

It's made using the <table> element along with related tags like <tr>(table row) , <td>(table data), and <th>(table head).

Example

in html

```
<table>
  <th>roll</th>
  <th>name</th>
  <th>city</th>
  <tr>
    <td>1</td>
    <td>sam</td>
    <td>nyc</td>
  </tr>

  <tr>
    <td>2</td>
    <td>john</td>
    <td>london</td>
  </tr>

  <tr>
    <td>3</td>
    <td>kartheek</td>
    <td>burlin</td>
  </tr>
</table>
```

in css

```
<style>
  table,th,td{
    border: 1px solid red;
    border-collapse: collapse;
    padding: 10px;
  }
</style>
```

Form in html

An HTML form is used to collect user input and send it to a server for processing.

It's defined using the <form> tag and includes various input elements like text fields, checkboxes, radio buttons, dropdowns, and buttons.

In form there is a method attribute which takes get or post request

There is action attribute it specifies where to send the form data when the form is submitted.

GET:

Requests data from the server

Appended to the URL (?key=value)

Visible in URL (not secure for sensitive data)

POST:

Sends data to the server to create/update

Sent in the body of the request

Hidden from URL (more secure)

Example

in html

```
<form method="post" action="/submit-form">
  <label for="fname">Name</label>
  <input type="text" id="fname"
  placeholder="enter your name" name="firstname" required> <br> <br>

  <label for="email">Email</label>
  <input type="email" id="email"
  placeholder="enter your email" name="email" required> <br> <br>

  <label for="pass">Password</label>
  <input type="password" id="pass" placeholder="enter your password"
  name="password" minlength="6" maxlength="6" required> <br> <br>

  <label for="no">Number</label>
  <input type="number" id="no" placeholder="enter your number" name="number"> <br> <br>

  <span>Select gender :</span>

  <label for="m">male</label>
  <input type="radio" name="gender" id="m">

  <label for="f">female</label>
  <input type="radio" name="gender" id="f"> <br> <br>

  <span>Select courses</span>
  <label for="mba">Mba</label>
  <input type="checkbox" id="mba" name="mba">

  <label for="bca">bca</label>
  <input type="checkbox" id="bca" name="bca">

  <label for="arts">arts</label>
  <input type="checkbox" id="arts" name="arts">
  <br> <br>
```

```
<label for="car">Select your cars</label>
```

```
<select name="cars" id="car">
```

```
  <option>Select cars</option>
```

```
  <option>Audi</option>
```

```
  <option>bmw</option>
```

```
  <option>swift</option>
```

```
</select>
```

```
<br> <br>
```

```
<label for="lang">Choose your language:</label>
```

```
<input list="languages" name="languages" id="lang">
```

```
<datalist id="languages">
```

```
  <option value="html">html</option>
```

```
  <option value="css">css</option>
```

```
  <option value="js">js</option>
```

```
</datalist>
```

```
<br> <br>
```

```
<label for="msg">Type your message</label> <br>
```

```
<textarea name="message" id="msg" rows="3" cols="25" placeholder="type some text"></tex
```

```
<br><br><br>
```

```
<input type="file"> <br> <br>
```

```
<label for="dob">Dob</label>
```

```
<input type="date" name="dob" id="dob"> <br> <br>
```

```
<label for="time">Time</label>
```

```
<input type="time" name="time" id="dob"> <br> <br>
```

```
<label for="dob-time">Dob Time</label>
```

```
<input type="datetime-local" id="dob-time" name="DobTime"> <br> <br>
```

```
<input type="submit" value="submit">
```

```
<input type="reset" value="reset">
```

```
</form>
```

in Css

```
<style>
```

```
  input{
```

```
    /* background-color: red; */
```

```
    color: blue;
```

```
    border: none;
```

```
    background-color: paleturquoise;
```

```
    padding: 10px;
```

```
  }
```

```
  input:focus{
```

```
    outline: none;
```

```
}
input::placeholder{
    color: red;
}
select{
    width: 140px;
    background-color: azure;
}
select:focus{
    outline: none;
}
label{
    color: white;
}
form{
    width: 50%;
    margin: 0 auto;
    background-color: transparent;
    padding: 40px;
} </style>
```