

# **Module 2: Website Layouts**

# Video 2.1: Control Layout Using CSS Grid

### Introduction

Now that we have an idea of how styling works, let's look at how we can arrange content in the window. One of the ways is to divide the layout into grids. CSS has a property "display," for which we can assign the value "grid." This helps us divide the screen into grids, where we can then place our content.

Starter code (HTML):





```
<!DOCTYPE html>
<html lang="en">
<head>
       <meta charset="UTF-8">
      <title>CSS Grid Lesson</title>
      link
href="https://fonts.googleapis.com/css2?family=Quicksand:wght@400;600&display=swap
" rel="stylesheet">
      <link href="styles.css" rel="stylesheet">
</head>
<body>
      <h1>CSS Grid Lesson</h1>
      <div class="content">
             <div class="box color1">
                   Alice
             </div>
             <div class="box color2">
                    Bob
             </div>
             <div class="box color1">
                    Charlie
             </div>
             <div class="box color2">
                    Daisy
             </div>
             <div class="box color1">
             </div>
             <div class="box color2">
                   Frank
             </div>
      <div class="box color1">
                    Grace
             </div>
             <div class="box color2">
                    Harry
             </div>
             <div class="box color1">
             </div>
             <div class="box color2">
             </div>
             <div class="box color1">
                    Kathy
             </div>
             <div class="box color2">
                    Louis
             </div>
      </div>
</body>
</html>
```



CSS:

```
body {
      font-family: "Quicksand", sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 0;
}
h1 {
      font-size: 36px;
      color: #333;
}
/* Content Wrapper */
.content {
      width: 100%;
/* Box Styles */
.box {
      width: 100%;
      padding: 30px;
      text-align: center;
      line-height: 100px;
      font-size: 18px;
}
.color1 {
      background-color: #5d0404;
      color: white;
}
.color2 {
      background-color: #e4f785;
}
```

#### **Exercises**

Task 1: In the css file, inside the .content class, add the following lines of code.

```
display: grid;
Grid-template-columns: 1fr 1fr;
```



```
body {
      font-family: "Quicksand", sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 0;
}
h1 {
      font-size: 36px;
      color: #333;
}
.content {
      width: 100%;
}
/* Box Styles */
.box {
      width: 100%;
      padding: 30px;
      text-align: center;
      line-height: 100px;
      font-size: 18px;
}
.color1 {
      background-color:
                        #5d0404;
      color: white;
}
.color2 {
      background-color: #e4f785;
}
```





#### **Final Screenshot:**



Let's examine the code. The display is set to grid, and a grid has rows and columns.

By setting the property 'grid template columns, we get to decide how many columns we want. Since there are 3 instances of '1fr' next to it, we want three columns.

Also, fr refers to 'fraction'. This means that there are three columns, each occupying one part of the fraction. That means, each column will take up one third of the width. There were 12 names to begin

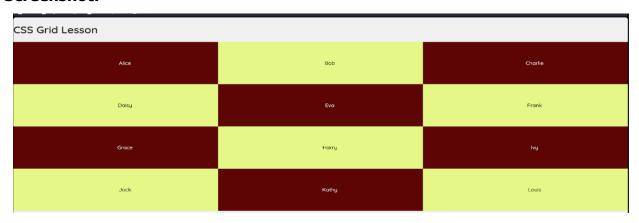


with. If they're divided into three columns, then there are four such rows, right? Let's add some gap to make it look neater.

## Task 2: Add gap: 5px inside the .content class.

```
body {
      width: 100%;
      font-family: "Quicksand", sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 10px;
}
h1 {
      font-size: 36px;
      color: #333;
}
.content {
      display: grid;
      display: grid;
grid-template-columns: 1fr 1fr 1fr;
}
.box {
      width: 100%;
      padding: 30px;
      text-align: center;
      line-height: 100px;
      font-size: 18px;
}
.color1 {
      background-color: #5d0404;
      color: white;
}
.color2 {
      background-color: #e4f785;
}
```





# **Final Screenshot:**



It looks neater now. What happens if we change the size of one of the columns? Let's see.

Task 3: Change the grid-template-columns property to 1fr 2fr 1fr



```
body {
      width: 100%;
      font-family: "Quicksand", sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 10px;
}
h1 {
      font-size: 36px;
      color: #333;
}
.content {
      display: grid;
      grid-template-columns: 1fr 1fr;
      gap: 5px;
}
.box {
      width: 100%;
      padding: 30px;
      text-align: center;
      line-height: 100px;
      font-size: 18px;
}
.color1 {
      background-color: #5d0404;
      color: white;
}
.color2 {
      background-color: #e4f785;
}
```





#### **Final Screenshot:**



Can you see the increase in the size of the second column? This is because the columns occupy the frames proportionally. The second column now occupies twice the width as the first and the third columns. Now, the entire width gets divided into four parts instead of three. One part is occupied by the first column, two parts by the second column, and one by the last column.

And right now, the rows are equally sized. By using 'grid-template-rows', we can manipulate the size of the rows as well.

Task 4: Add 'grid-template-rows: 1fr 2fr 3fr 2fr;' into the .content class.



```
body {
       width: 100%;
       font-family: "Quicksand", sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 10px;
h1 {
       font-size: 36px;
      color: #333;
}
.content {
      display: grid;
       grid-template-columns: 1fr 2fr 1fr;
       gap: 5px;
}
.box {
      width: 100%;
      padding: 30px;
       text-align: center;
       line-height: 100px;
       font-size: 18px;
}
.color1 {
      background-color: #5d0404;
      color: white;
}
.color2 {
      background-color:
}
```





# **Final Screenshot:**

