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FSD Theory Ass 1

CSS Grid Layout is a two-dimensional layout system for the web that allows you to design complex web layouts with rows and columns. It provides a more efficient and convenient way to create responsive web designs compared to traditional methods like floats and positioning.

Here's how you can use CSS Grid:

Basic Concepts:

Grid Container:

To create a grid layout, you first need to define a grid container. You can do this by setting the CSS property display: grid; on the parent element.

Grid Items:

Elements inside the grid container are called grid items. They will automatically be placed into the grid cells.

Grid Rows and Columns:

You define the structure of the grid using properties like grid-template-rows, grid-template-columns, or grid-template-areas.

Example:

Let's say you want to create a grid with three rows and three columns.

HTML:

<div class="grid-container">

<div class="grid-item">1</div>

<div class="grid-item">2</div>

<div class="grid-item">3</div>

<div class="grid-item">4</div>

<div class="grid-item">5</div>

<div class="grid-item">6</div>

<div class="grid-item">7</div>

<div class="grid-item">8</div>

<div class="grid-item">9</div>

</div>  
  
CSS  
  
.grid-container {

display: grid;

grid-template-rows: 100px 100px 100px; /\* Three rows each with 100px height \*/

grid-template-columns: 100px 100px 100px; /\* Three columns each with 100px width \*/

grid-gap: 10px; /\* Gap between grid items \*/

}

.grid-item {

background-color: #3498db;

color: white;

text-align: center;

padding: 20px;

}  
  
In this example:

The grid-template-rows and grid-template-columns properties define the size of rows and columns in the grid.

grid-gap sets the gap between grid items.

grid-item class styles the individual grid items.

The result will be a 3x3 grid of squares where each square has a background color of #3498db, white text, and a 10px gap between them.

You can further customize the grid layout, such as using grid-template-areas for more complex layouts or utilizing properties like grid-column and grid-row for item placement within the grid. CSS Grid provides a powerful and flexible way to create responsive and intricate web layouts.  
  
