

Module 2: Website Layouts

Video 2.2: Understanding Grid Lines - Solution

Task 1: Basic Grid Layout

- Create a basic grid layout with three rows and three columns.
- Apply different background colors to each grid cell.

Desired Output:

| 1 | 2 | 3 |
|---|---|---|
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Solution Code (CSS):

```
.grid-container {
    display: grid;
    grid-template-columns: repeat(3, 1fr);
    grid-template-rows: repeat(3, 100px);
}
.item:nth-child(1) {
    background-color: #ffd700;
}
.item:nth-child(2) {
    background-color: #ff6347;
.item:nth-child(3) {
    background-color: #87ceeb;
.item:nth-child(4) {
    background-color: #98fb98;
.item:nth-child(5) {
    background-color: #9370db;
.item:nth-child(6) {
    background-color: #ffa500;
.item:nth-child(7) {
    background-color: #20b2aa;
}
.item:nth-child(8) {
    background-color: #ff4500;
.item:nth-child(9) {
    background-color: #00ffff;
}
.item {
    border: 1px solid black;
    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 1.5rem;
}
```



Task 2: Responsive Grid Layout

- Create a responsive grid layout with four columns. The layout should change to two columns on smaller screens.
- Apply different background colors to even and odd grid cells.

Desired Output:



On Smaller Screen:



Solution Code (CSS):



```
.grid-container {
   display: grid;
   grid-template-columns: repeat(4, 1fr);
   grid-gap: 10px;
}
.item:nth-child(odd) {
   background-color: #ffd700;
}
.item:nth-child(even) {
   background-color: #ff6347;
@media (max-width: 768px) {
   .grid-container {
       grid-template-columns: repeat(2, 1fr);
   }
}
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```



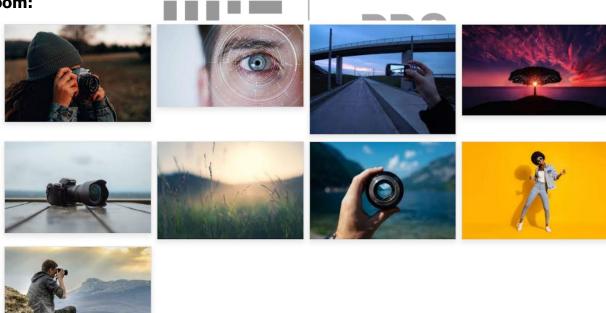
Task 3: Image Gallery Grid

• Create an image gallery grid with a dynamic number of columns based on the screen width. The images should maintain their aspect ratio and be centered within each cell.

Desired Output:



Upon Zoom:



Replace the numbers in the div with class="item" tag with img tags.



Solution Code (CSS):

```
.grid-container {
    display: grid;
    grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));
    grid-gap: 10px;
}
.item img {
   max-width: 100%;
   height: auto;
   display: block;
   margin: 0 auto;
   border: 1px solid #ddd;
   box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    transition: transform 0.2s ease-in-out;
.item img:hover {
    transform: scale(1.05);
}
```



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