Grid with Tailwind CSS

Grid layout in Tailwind provides powerful tools for creating complex, responsive layouts using utility classes.

◆ 1. Make Grid

Use the grid class to turn a container into a grid layout.

```html
<div class="grid grid-cols-3 gap-4 bg-gray-100 p-4">
  <div class="bg-blue-400 p-4">1</div>
  <div class="bg-blue-500 p-4">2</div>
  <div class="bg-blue-600 p-4">3</div>
</div>
```

◆ 2. Define Grid Columns and Rows

Use grid-cols-{n} and grid-rows-{n} to define the number of columns or rows.

```html
<!-- 4 columns -->
<div class="grid grid-cols-4 gap-2 bg-gray-100 p-4">
  <div class="bg-green-400 p-2">1</div>
  <div class="bg-green-500 p-2">2</div>
  <div class="bg-green-600 p-2">3</div>
  <div class="bg-green-700 p-2">4</div>
</div>
```

```html
<!-- 3 rows -->
<div class="grid grid-rows-3 gap-2 bg-gray-100 p-4 mt-4 h-48">
  <div class="bg-pink-400 p-2">Row 1</div>
  <div class="bg-pink-500 p-2">Row 2</div>
  <div class="bg-pink-600 p-2">Row 3</div>
</div>
```

◆ 3. Use col-span with Grid

Use col-span-{n} to span multiple columns.

```
<div class="grid grid-cols-4 gap-4 bg-gray-100 p-4">
  <div class="bg-purple-400 p-4 col-span-2">Span 2</div>
  <div class="bg-purple-500 p-4">Item</div>
  <div class="bg-purple-600 p-4">Item</div>
</div>
```

◆ 4. Gap Between Columns and Rows

Use gap-x-{n} for horizontal spacing and gap-y-{n} for vertical spacing.

```
<div class="grid grid-cols-2 gap-x-8 gap-y-4 bg-gray-100 p-4">
  <div class="bg-yellow-400 p-4">A</div>
  <div class="bg-yellow-500 p-4">B</div>
  <div class="bg-yellow-600 p-4">C</div>
  <div class="bg-yellow-700 p-4">D</div>
</div>
```

◆ 5. Responsive Grid Columns

Use responsive classes like sm:grid-cols-2, md:grid-cols-3, etc.

```
<div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 gap-4 bg-gray-100 p-4">
  <div class="bg-teal-400 p-4">1</div>
  <div class="bg-teal-500 p-4">2</div>
  <div class="bg-teal-600 p-4">3</div>
  <div class="bg-teal-700 p-4">4</div>
  <div class="bg-teal-800 p-4">5</div>
  <div class="bg-teal-900 p-4">6</div>
</div>
```

🎤 Interview Questions

❓ How do you make a grid layout in Tailwind?

Use the grid class along with grid-cols-{n} or grid-rows-{n}.

❓ How do you span an element across columns?

Use col-span-{n} where n is the number of columns to span.

❓ How do you change the number of columns on smaller screens?

Use responsive grid column classes like:

`grid-cols-1 sm:grid-cols-2 md:grid-cols-4`