

Enable Grid

```
display: grid;
display: inline-grid;
```

Grid Units

fr	Fraction of available space
px	Fixed size
%	Relative to grid container
auto	Size to content
min-content	Smallest possible
max-content	Largest possible
minmax(a, b)	Flexible range

Define Columns & Rows

```
grid-template-columns: 200px 1fr 2fr;
grid-template-rows: auto 1fr auto;
```

Common Column/Row Patterns

```
repeat(3, 1fr)
repeat(auto-fill, minmax(250px, 1fr))
repeat(auto-fit, minmax(250px, 1fr))
```

Common Layout Recipes

Equal Columns

```
grid-template-columns: repeat(3, 1fr);
```

Responsive Cards

```
grid-template-columns: repeat(auto-fit,
minmax(250px, 1fr));
```

Sticky Footer

```
grid-template-rows: auto 1fr auto;
```

Alignment

Align Tracks

```
justify-content: start | center | end | space--
between | space-around | space-evenly;
align-content: start | center | end | stretch;
```

Align Items

```
justify-items: start | center | end | stretch;
align-items: start | center | end | stretch;
```

Alignment (Individual Item)

```
justify-self: start | center | end | stretch;
align-self: start | center | end | stretch;
```

Line Numbers & Keywords

```
grid-column: 1 / -1; /* Full Width */
grid-row: auto;
```

Subgrid (When Supported)

```
grid-template-columns: subgrid;
grid-template-rows: subgrid;
```

Named Grid Areas

```
.header { grid-area: header; }
.sidebar { grid-area: sidebar; }
.main { grid-area: main; }
.footer { grid-area: footer; }
```

grid-template-areas:

```
"header header"
"sidebar main"
"footer footer";
```

Explicit Placement (Items)

```
grid-column: 1 / 3;
grid-row: 2 / 4;
grid-area: row-start / col-start / row-end /
col-end;
```

Auto Placement

```
grid-auto-flow: row;
grid-auto-flow: column;
grid-auto-flow: dense;
grid-auto-rows: 200px;
grid-auto-columns: 1fr;
```

Debugging Tips

```
outline: 1px solid red; on grid +
items
```

grid-column: 1 / -1 is your "nuke it full width" button

If it is stretching weirdly, check align-items first

If it is not wrapping, you probably want auto-fit or auto-fill

Grid defines structure first. Items adapt.



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