

# CSS Grid Cheat Sheet

**CSS-grid is a two-dimensional grid system built into CSS3**

**To make css grid happen, you need to set this on the parent container of the grid:**

```
display: grid;
```

**Then set up how many columns you want: This is 4 equal width columns using "fraction units":**

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

**This is two columns using percentages:**

```
grid-template-columns: 70% 30%
```

**Or you can use a repeat like these:**

```
grid-template-columns: repeat(4, 1fr)
grid-template-columns: repeat(4, 1fr 2fr)
```

**Add gaps between columns and rows:**

```
grid-column-gap: 1em (or 25px etc)
grid-row-gap: 1em;
grid-gap: 1em; (sets both column and row gaps)
```

**Auto set the rows to certain height:**

```
grid-auto-rows: 100px;
Or a minimum height that will expand when needed:
```

```
grid-auto-rows: minmax(100px, auto);
```

**This is good for thumbnail galleries. Auto fill columns with certain width. stays flexible and responsive!**

```
grid-template-columns: repeat(auto-fill, 150px);
This way is even better. this makes it more flexy:
```

```
grid-template-columns: repeat(auto-fill, minmax(150px, 1fr));
```

**This fills in the gaps if you have multiple sizes of boxes. It may reorder things though.**

```
grid-auto-flow: dense;
```

**Explicitly stretch things across multiple columns or rows:**

```
grid-column: 1/3; "start at column 1 and end before column 3"
grid-row: 1/3;
```

**Spanning multiple columns**

```
grid-column-end: span 2;
```

**Or**

```
grid-row-end: span 2;
```

**Stretching across the whole width of the grid:**

```
grid-column: 1 / -1;
(-1 represents the last column always)
```