# CSS Grid Cheat Sheet

by joshbagnallcom (joshbagnallcom) via cheatography.com/217170/cs/47633/

## 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-c olumn: 1 / -1` is your “nuke it full width” button

If it is stretching weirdly, check `align- it ems` first

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

Grid defines structure first. Items adapt.

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