

CSS Grid cheatsheet

<https://cssgrid.bate.dev>

Shorthand is row first, start first

Container

```
/* Display properties */
display: grid | inline-grid | subgrid;

/* Columns and rows */
grid-template-columns: 1rem auto 10% 2fr;
grid-template-columns: repeat(12, 1fr);
/* auto is content-based, fr will fill space */
grid-template-rows: 1rem 5% auto repeat(5, 10px);

/* Areas */
grid-template-areas:
  "header header"
  "main aside"
  "footer footer"; /* Grid-style */
grid-template-areas: "header header" "main aside"
  "footer footer"; /* Inline-style */

/* Template shorthand */
grid-template:
  "header header" auto /* Row areas + size */
  "main aside" 100vh
  "footer footer" 10rem
  / 80% 20%; /* Column sizes at end */

/* Gaps - space between rows and columns */
grid-gap: 1rem 0.5rem;
grid-gap: 1rem; /* Gap in both dimensions */

/* Item justification (within cell) */
justify-items: start | center | end | stretch;
/* left | center | right | fill (default) */

/* Item alignment (within cell) */
align-items: start | center | end | stretch;
/* top | center | bottom | fill (default) */

/* Place item shorthand */
place-items: <align-items> <justify-items>;

/* Content justification (columns within grid) */
justify-content: start | center | end | stretch |
  space-around | space-between | space-evenly;
/* left | center | right | fill (default) |
  margin-like space around each column |
  even space between columns, none outside |
  even spacing between and outside columns */

/* Content alignment (rows within grid) */
align-content: start | center | end | stretch |
  space-around | space-between | space-evenly;
/* top | center | right | fill (default) |
  margin-like space around each row |
  even space between rows, none outside |
  even spacing between and outside rows */

/* Place content shorthand */
place-content: <align-content> <justify-content>;
/* Content placement is used when the rows or
  columns don't fill the parent grid container. */
```

Child

```
/* Column position */
grid-column-start: 1;
grid-column-end: 2;

grid-column: 1 / 2; /* Short hand */
grid-column: 1 / span 2; /* Span 2 columns */
grid-column: 1; /* Occupy one column */

/* Row position */
/* Same as column, but with -row */

/* Area positioning */
grid-area: header; /* Named grid area */
grid-area: 2 / 1 / 4 / 2;
/* Positioned grid area, same as below */
grid-row-start: 2;
grid-column-start: 1;
grid-row-end: 4;
grid-column-end: 2;

/* Self justification (within cell) */
justify-self: start | center | end | stretch;
/* left | center | right | fill (default) */

/* Self alignment (within cell) */
align-self: start | center | end | stretch;
/* top | center | bottom | fill (default) */

/* Placement shorthand */
place-self: <align-self> <justify-self>;

/* Automatic columns and rows */
grid-auto-columns: 10px;
grid-auto-rows: 1rem;
/* Sets the size of implicit cols / rows */

/* Automatic grid positioning */
grid-auto-flow: row | column | dense;
/* Ltr then Ttb | Ttb then Ltr | Best guess */

/* ≡ Final shorthand: grid ≡ */

/* Explicit grid columns, rows, and areas */
grid:
  "header header" auto
  "main aside" 100vh
  "footer footer" 10rem
  / 80% 20%;
/* Where a template is the only value */

/* Automatic grid flows */
grid: 1rem / auto-flow dense 1fr;
/* You can include rows, a flow, and automatic
  columns, which is equivalent to below */
grid-template-rows: 1rem;
grid-auto-flow: dense;
grid-auto-columns: 1fr;

grid: auto-flow dense 1rem / repeat(10, 10%);
/* Conversely, you can do the same thing with
  automatic rows, and defined columns */
grid-auto-flow: dense;
grid-auto-rows: 1rem;
grid-template-columns: repeat(10, 10%);
```