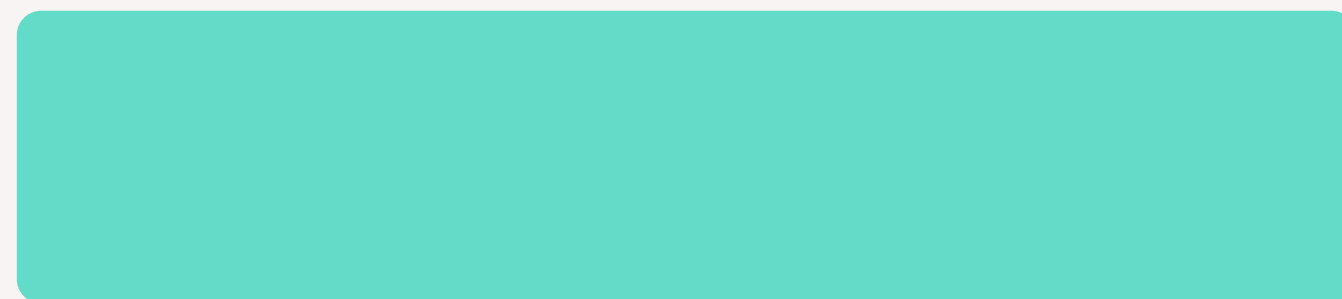


CSS *Grid*



Why CSS Grid

- **PROVIDES A GRID LAYOUT SYSTEM FOR CSS**
- **SIMILAR TO FLEXBOX BUT MORE POWERFUL**
- **GRID ALLOWS 2D LAYOUTS**
- **NO FLOATS OR HACKS**

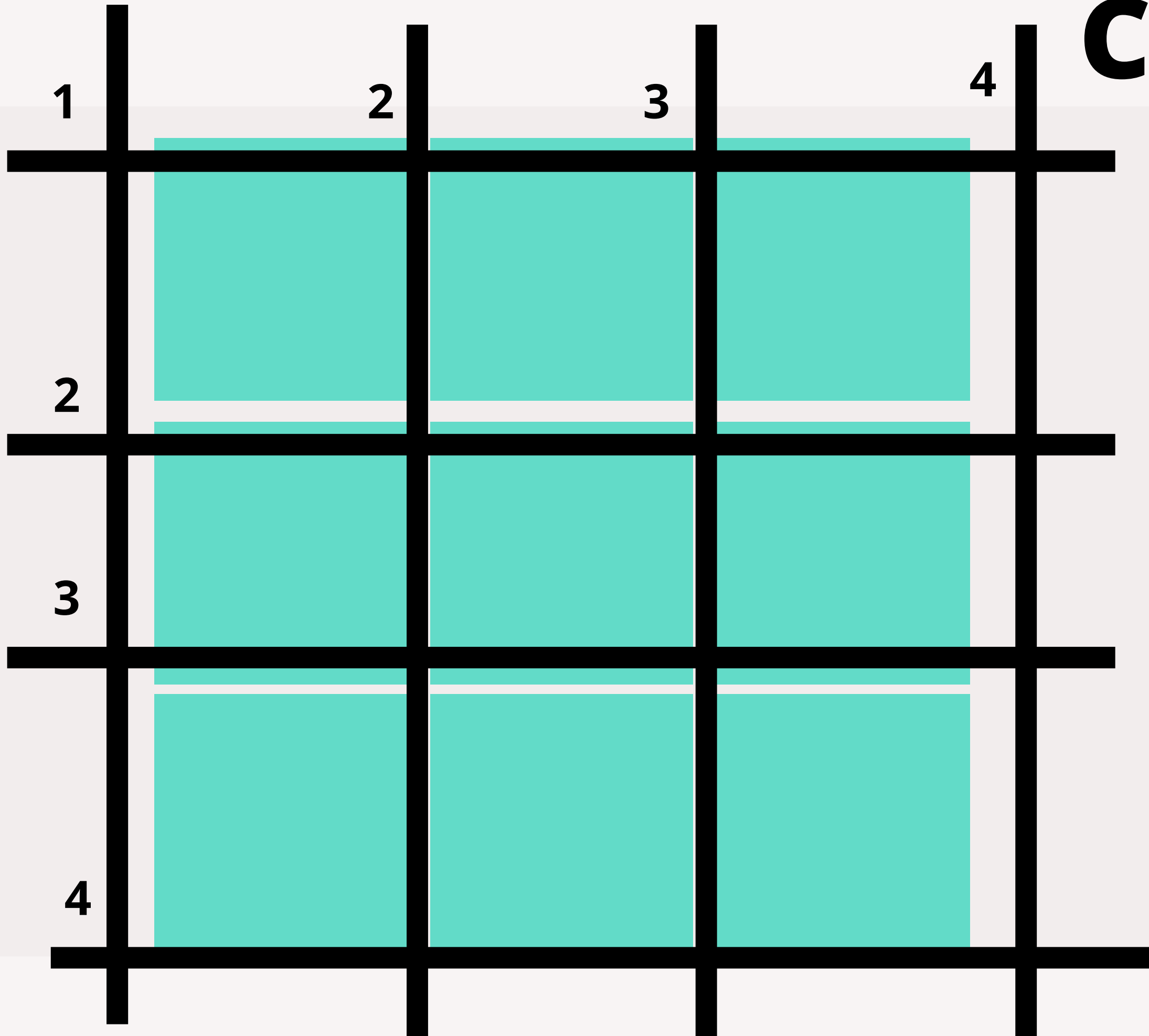
Grid Vs Flexbox

- **THEY CAN BE USED TOGETHER - IT'S NOT ONE OR THE OTHER**
- **USE GRID FOR OUTER ELEMENTS AND GRID-LIKE LAYOUTS**
- **USE FLEX FOR SIMPLE ALIGNMENT (INNER ELEMENTS, MENU ITEMS, NAVBAR, ETC..)**

CSS Grid

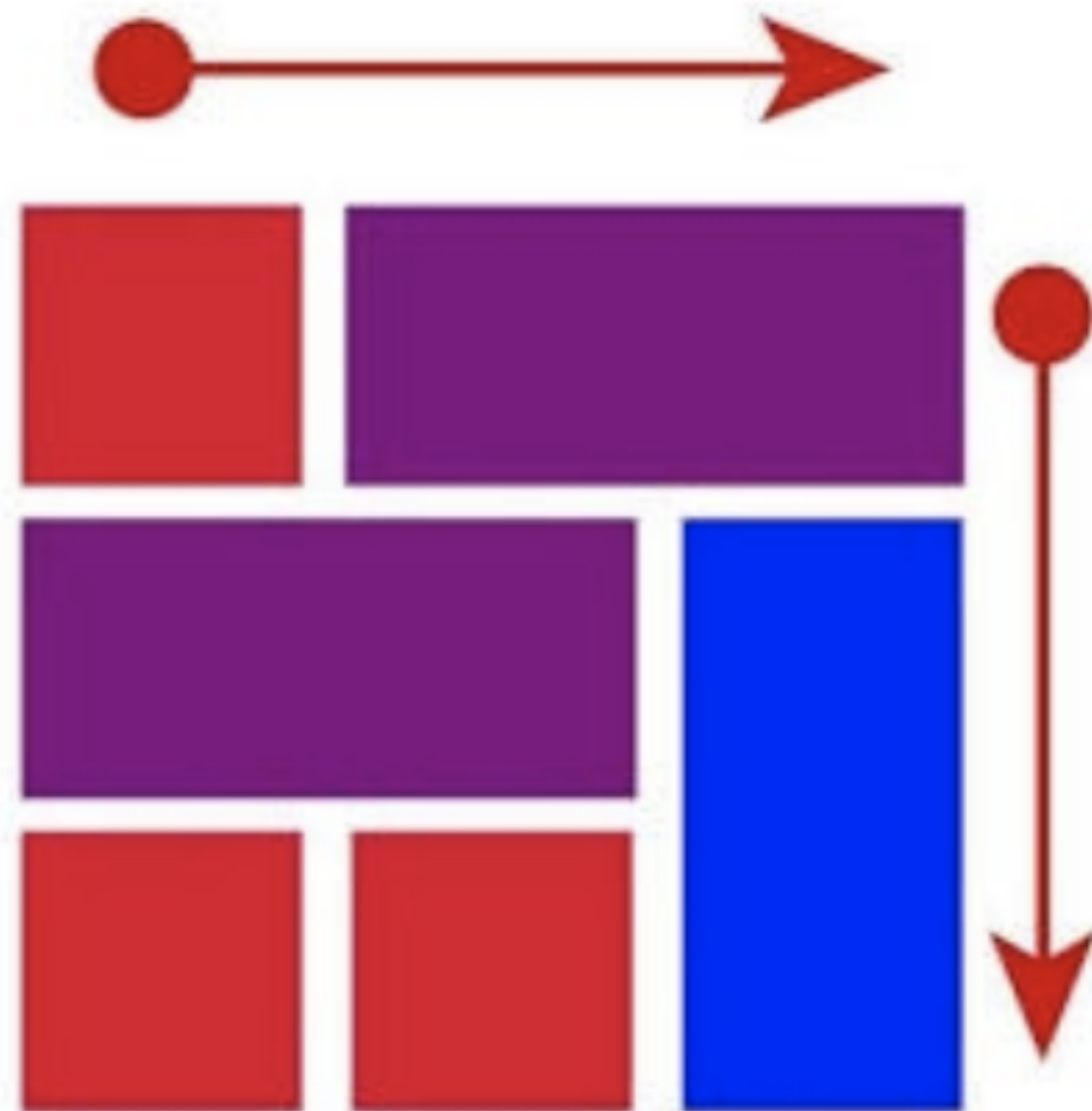
- **DISPLAY: GRID; */ CREATES A GRID */**
- **ALL DIRECT CHILDREN ARE GRID ITEMS**
- **"GRID-TEMPLATE-COLUMNS" DEFINES WIDTH AND NUMBER OF COLS**

CSS Grid





Flexbox
One Dimensions

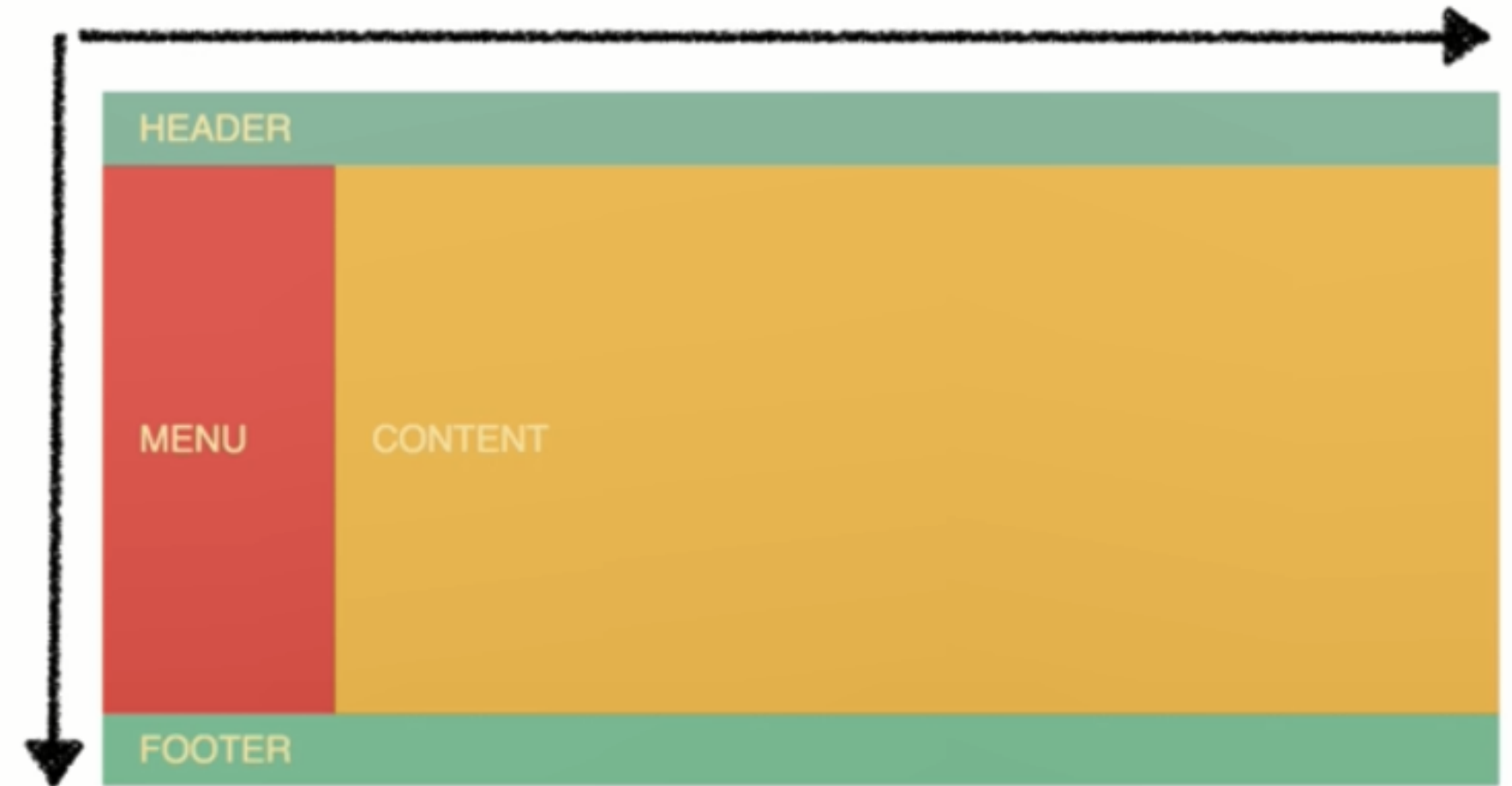


CSS Grids
Two Dimensions

One dimension



Two dimensions



```
grid-row: span 8;
```

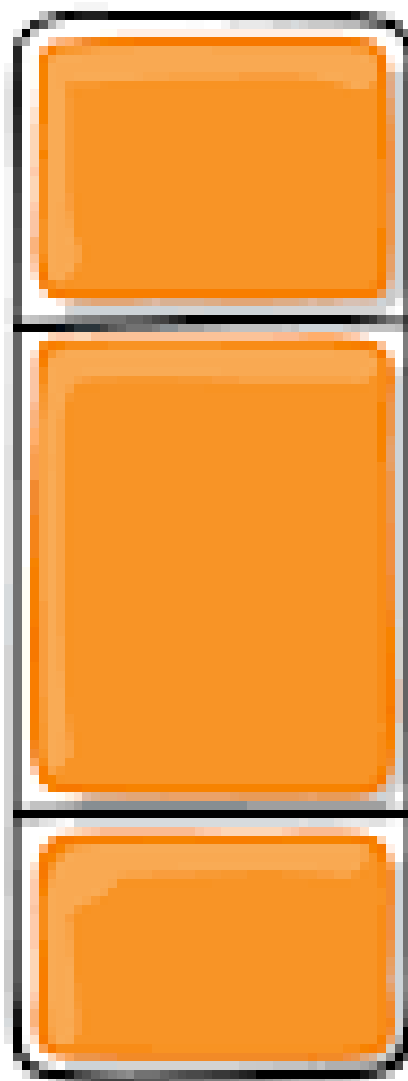
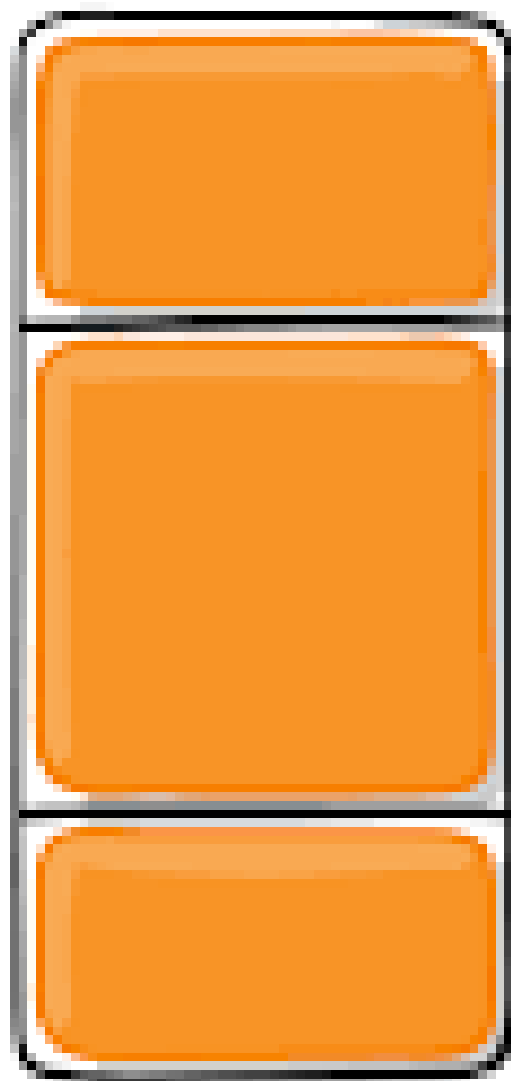
```
grid-column: 2 / 4;
```

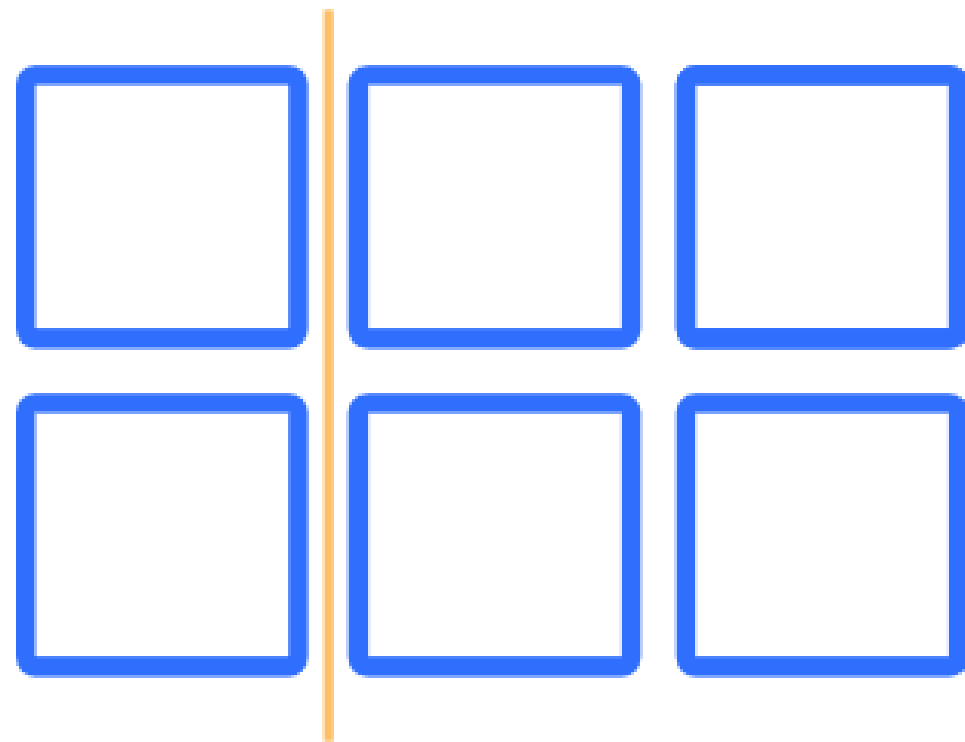
```
grid-row: span 9;
```

```
grid-row: span 9;
```

```
height: 100px;
```

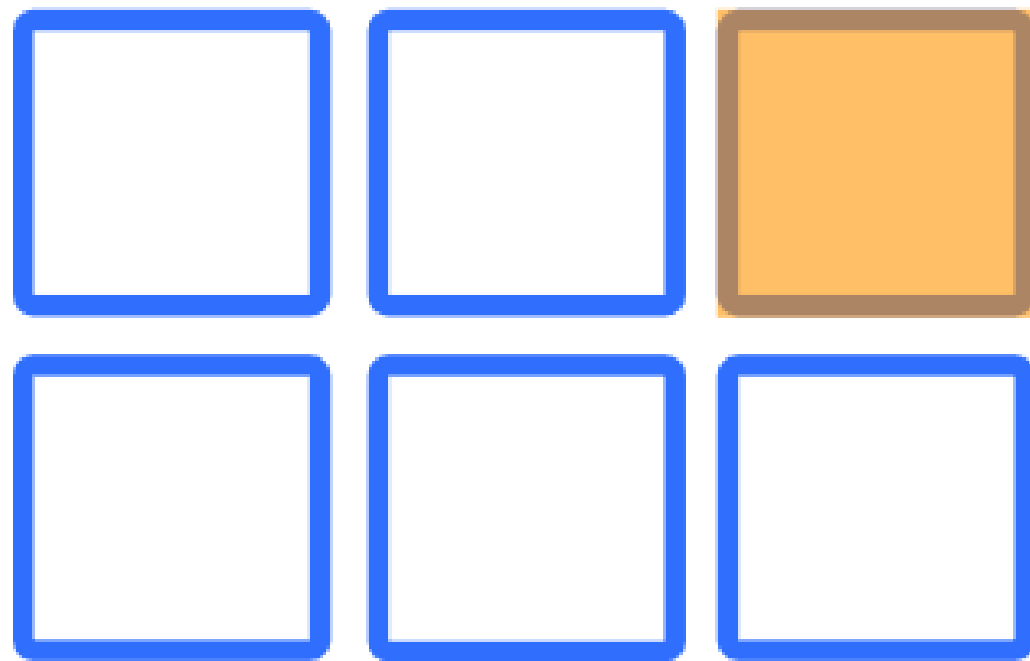

grid container





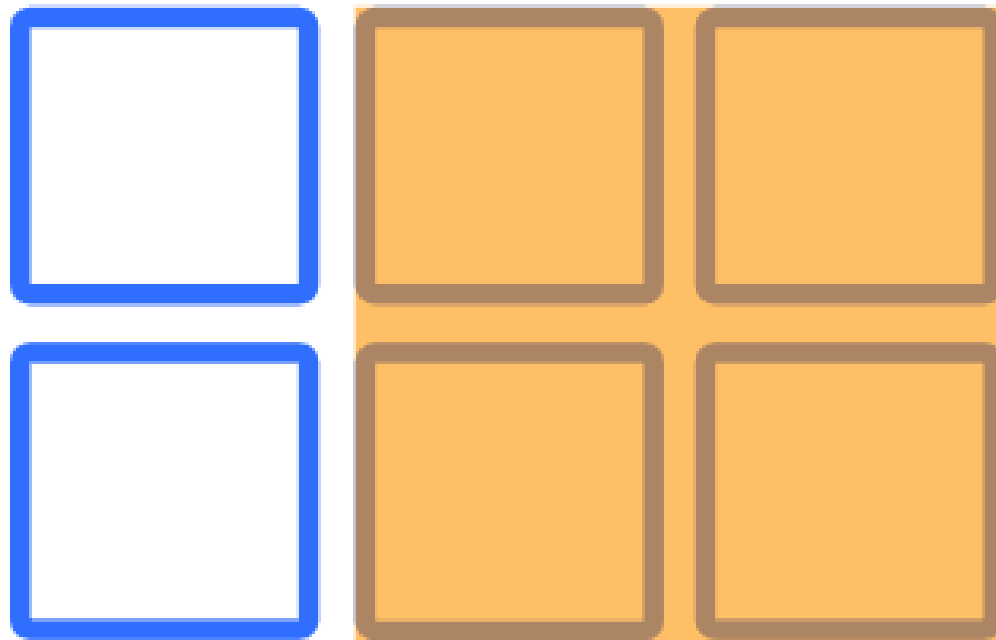
Grid lines

The vertical and horizontal lines that divide the grid and separate the columns and rows.



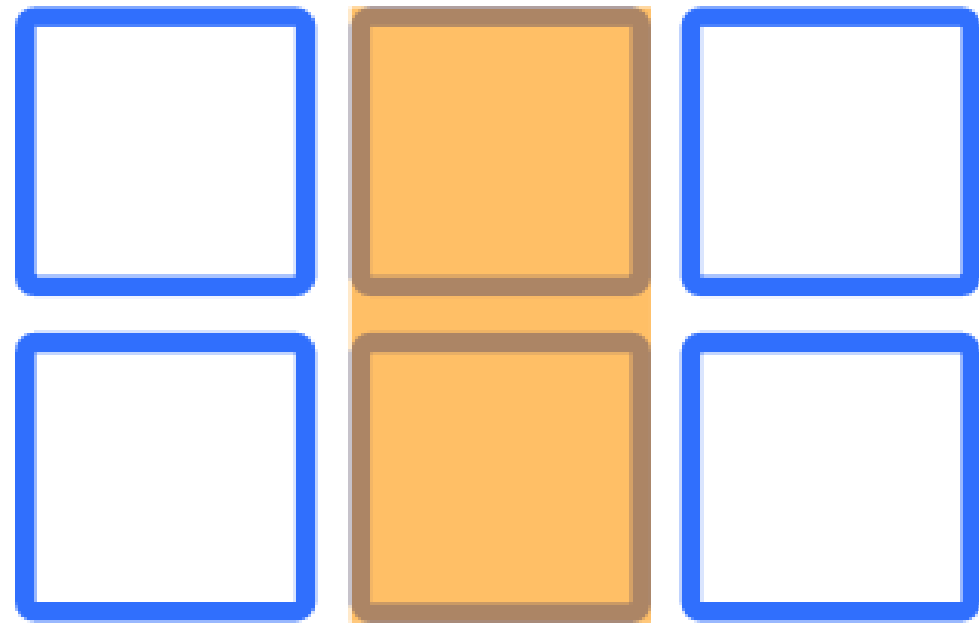
Grid cell

A single unit of a CSS grid.



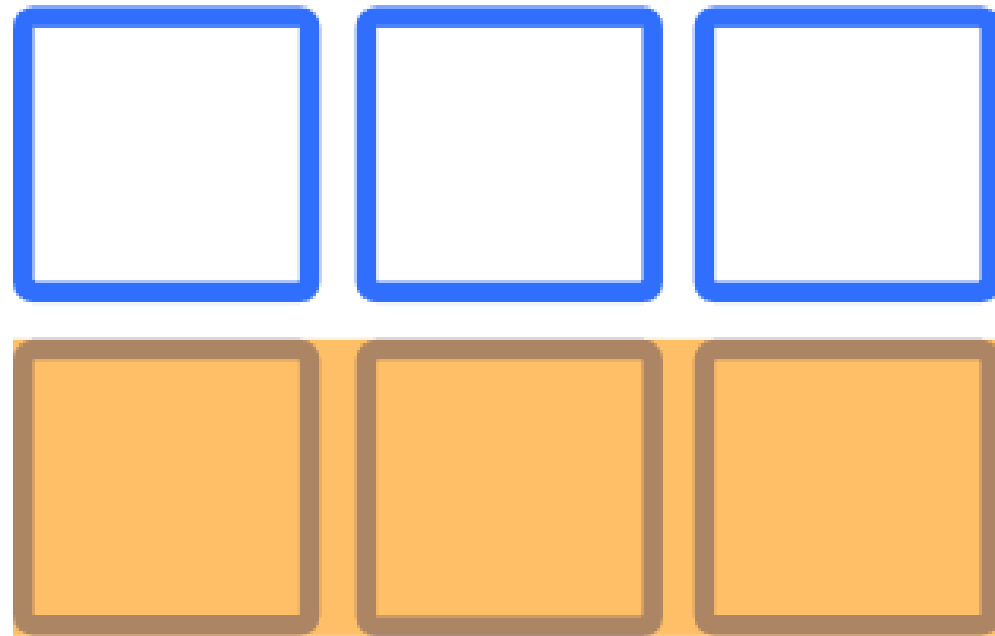
Grid area

Rectangular space surrounded by four grid lines. A grid area can contain any number of grid cells.



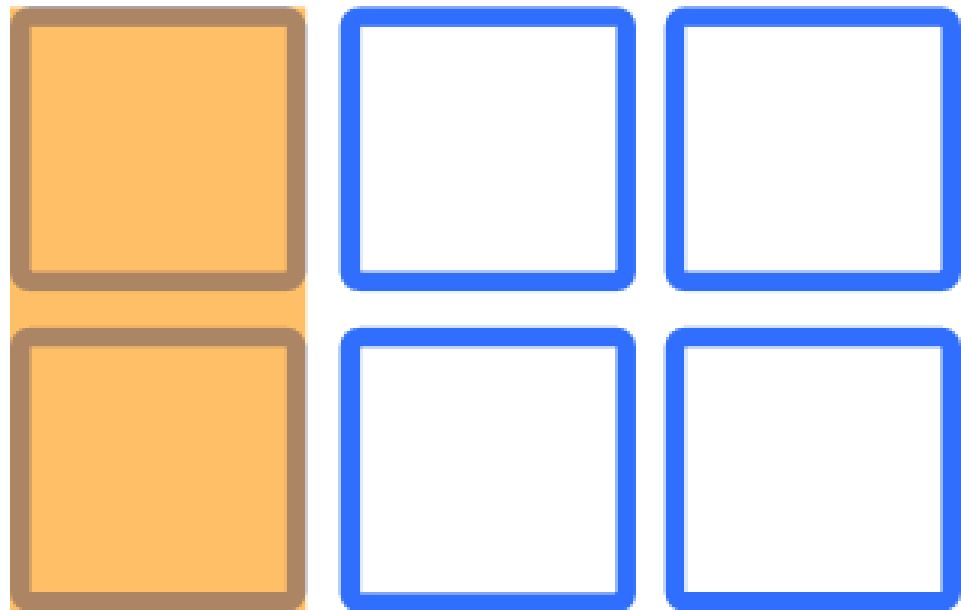
Grid track

The space between two grid lines. This space can be horizontal or vertical



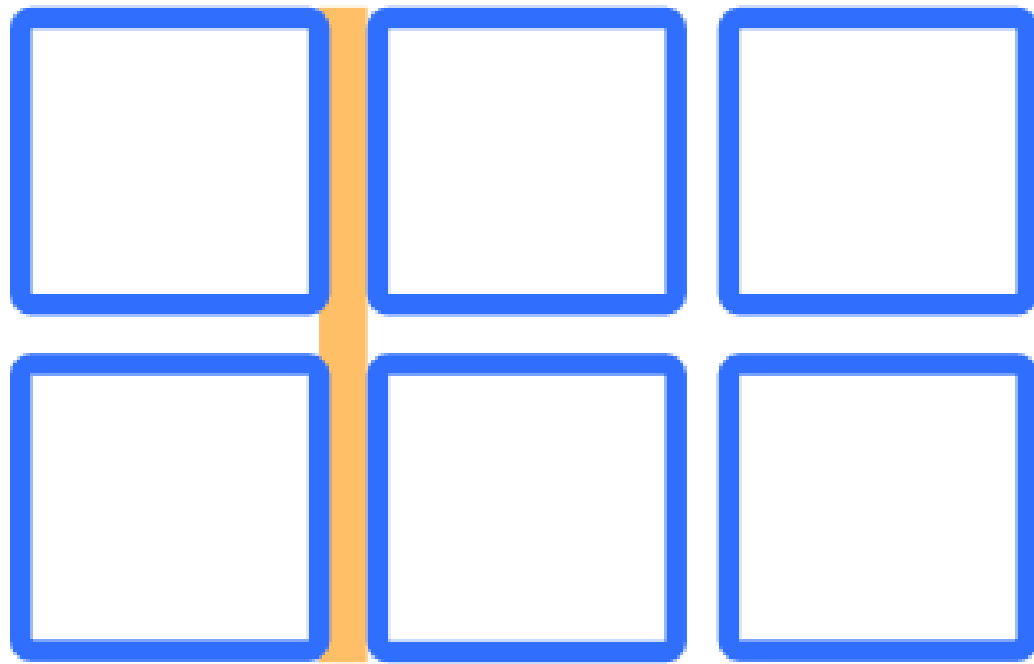
Grid row

A horizontal track of a grid.



Grid column

A vertical track of a grid.



Gutter

The space between rows and columns in a grid.

Grid Container Properties

- **DISPLAY**
- **GRID-TEMPLATE-COLUMNS**
- **GRID-TEMPLATE-ROWS**
- **GRID-TEMPLATE-AREAS**
- **GRID-TEMPLATE**
- **GRID-COLUMN-GAP**
- **GRID-ROW-GAP**
- **GRID-GAP**
- **JUSTIFY-ITEMS**
- **ALIGN-ITEMS**
- **PLACE-ITEMS**
- **JUSTIFY-CONTENT**
- **ALIGN-CONTENT**
- **PLACE-CONTENT**
- **GRID-AUTO-COLUMNS**
- **GRID-AUTO-ROWS**
- **GRID-AUTO-FLOW**
- **GRID**

Grid Item Properties

- **GRID-COLUMN-START**
- **GRID-COLUMN-END**
- **GRID-ROW-START**
- **GRID-ROW-END**
- **GRID-COLUMN**
- **GRID-ROW**
- **GRID-AREA**
- **JUSTIFY-SELF**
- **ALIGN-SELF**
- **PLACE-SELF**