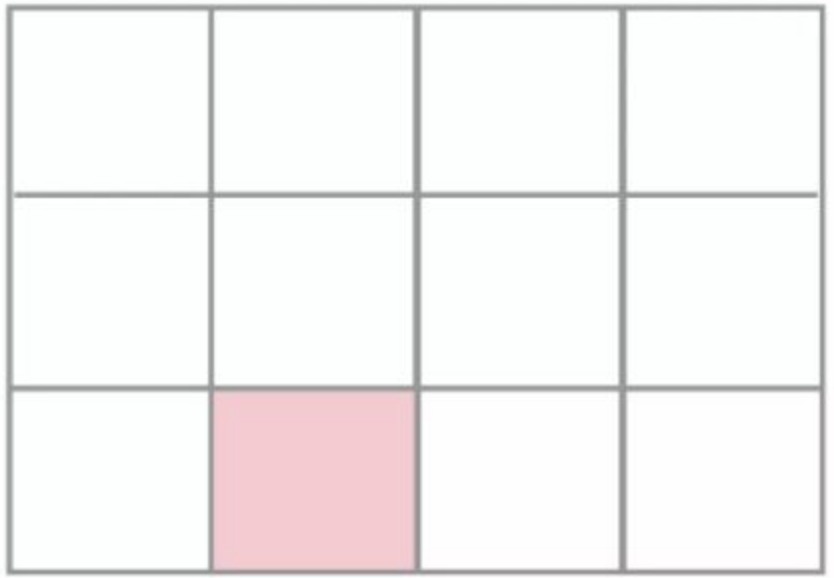
CSS GRIDS

By G.S.FAROOQ

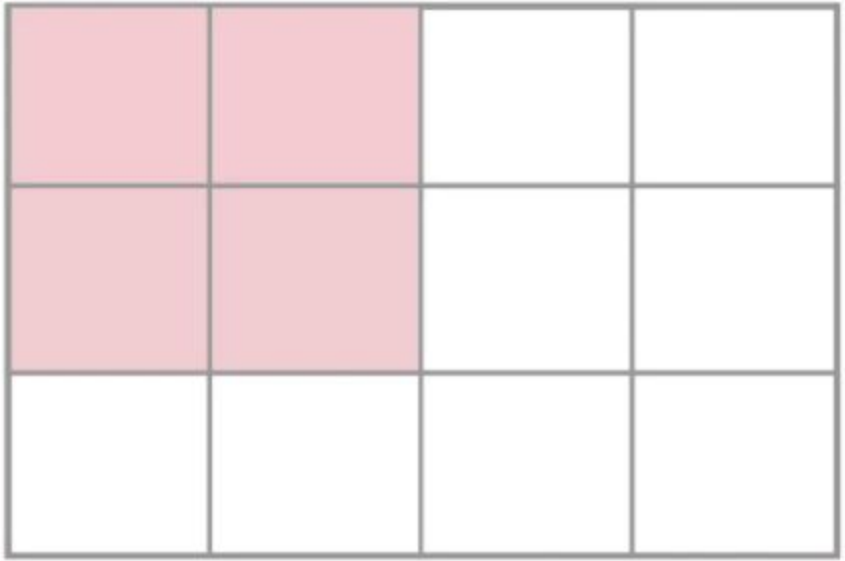
GRID CELL

The intersection between a *grid-row* and a *grid-column*.



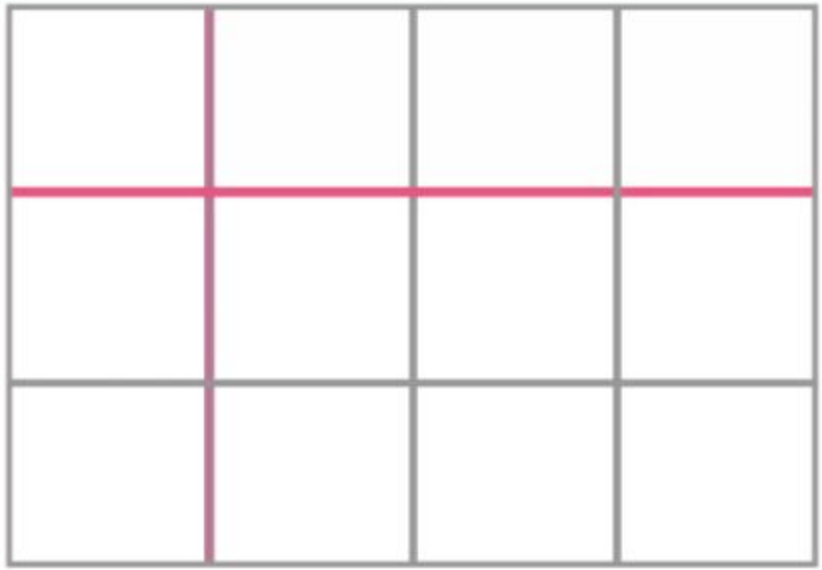
GRID AREA

Rectangular area between four specific grid lines. Can cover one or more cells.



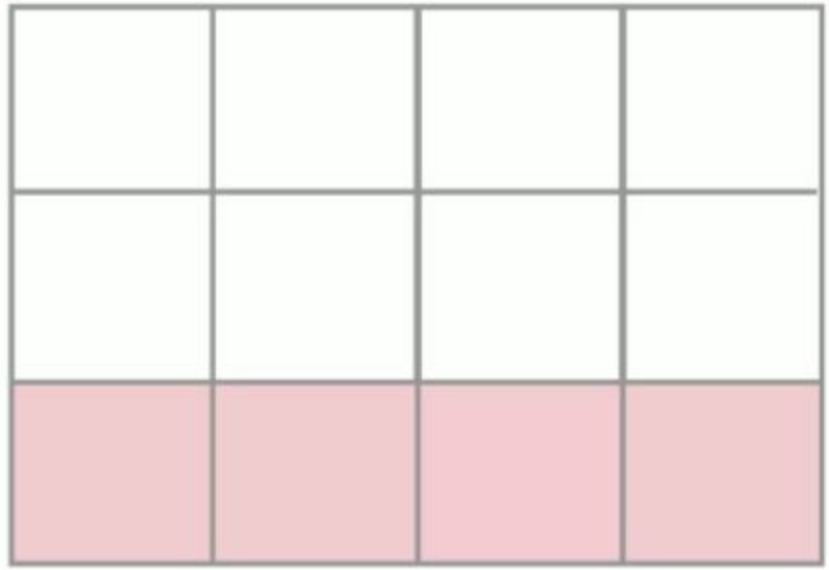
GRID LINE

Horizontal (row) or vertical (column) line separating the grid into sections.



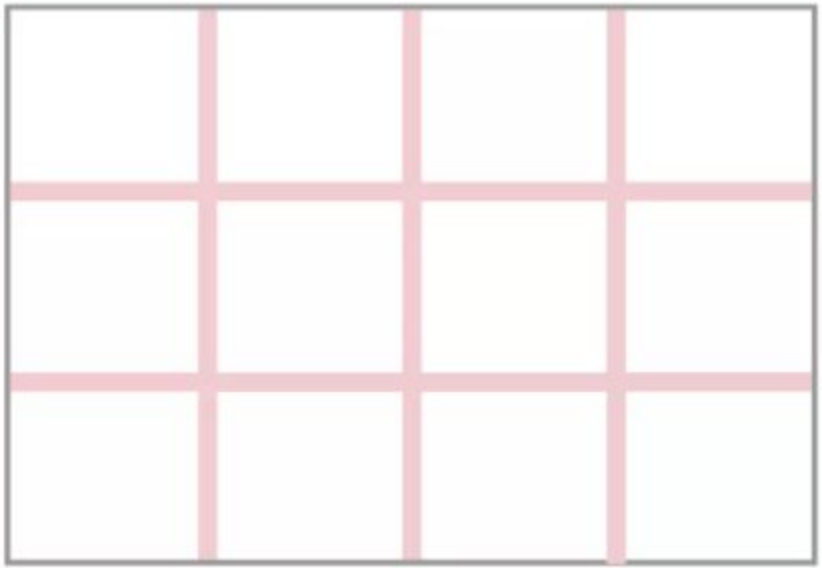
GRID TRACK

The space between two grid lines either horizontal or vertical.



GRID GAP

The empty space between grid tracks.
Commonly called gutters.



Defining a Grid

- grid-template-columns
- grid-template-rows

With these properties we define an *explicit grid*. This one has 3 column tracks and 3 row tracks.

http://cssgrid.me/05161

```
.cards {
  display: grid;
  grid-template-columns: 250px 250px 250px;
  grid-template-rows: 200px 200px 200px;

}
```

Defining a Grid

- grid-column-gap
- grid-row-gap
- grid-gap

We can create a gap between rows and columns. This gap acts much like column-gap in multiple column layout.

http://cssgrid.me/05162

```
.cards {
  display: grid;
  grid-template-columns: 250px 250px 250px;
  grid-template-rows: 200px 200px 200px;
  grid-gap: 20px;
}
```

Defining a Grid

The fr unit is a fraction unit, representing a fraction of the available space in the container.

I have created 3 equal width columns, each 1 fraction of the available space.

```
.cards {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr;
  grid-template-rows: 200px 200px 200px;
  grid-gap: 20px;
}
```

Defining a Grid

The fr unit is a fraction unit, representing a fraction of the available space in the container.

We have created 3 columns, the units add up to 4. The space is spilt into 4 equal parts, the first 2 tracks are given 1 part, the fine track 2 parts.

```
.cards {
  display: grid;
  grid-template-columns: 1fr 1fr 2fr;
  grid-template-rows: 200px 200px 200px;
  grid-gap: 20px;
}
```

Defining a Grid

The fr unit is a fraction unit, representing a fraction of the available space in the container.

You can mix fraction units with other length units. Any tracks with a fraction unit share the space left after fixed size tracks and the gaps have been defined.

http://cssgrid.me/05164

```
.cards {
  display: grid;
  grid-template-columns: 500px 1fr 2fr;
  grid-template-rows: 200px 200px 200px;
  grid-gap: 20px;
}
```

Defining a Grid

The repeat syntax lets us define a repeating pattern of tracks.

Here we are creating 3 1fr column tracks.

http://cssgrid.me/05165

```
.cards {
  display: grid;
  grid-template-columns: repeat(3, 1fr);
  grid-template-rows: 200px 200px 200px;
  grid-gap: 20px;
}
```

Defining a Grid

The minmax() function enables the creation of flexible grids. The first value is the minimum size of the Grid Track, the second the max size - set that to 1fr to allow the track to take up remaining space.

http://cssgrid.me/05169

```
.cards {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(200px,1fr));
  grid-gap: 20px;
}
```

Using line numbers

I have created a grid with 3 column tracks and 2 row tracks.

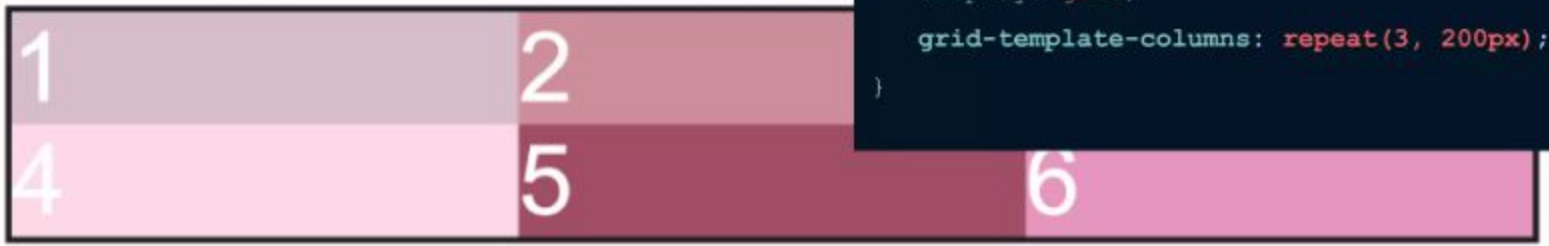
With no placement our blocks lay out one per grid cell.

```
.cards {
  display: grid;
  grid-gap: 20px;
  grid-template-columns: repeat(3,1fr);
  grid-auto-rows: 200px;
}
```

```html
<div class="grid">
    <div>1</div>
    <div>2</div>
    <div>3</div>
    <div>4</div>
    <div>5</div>
    <div>6</div>
</div>
```

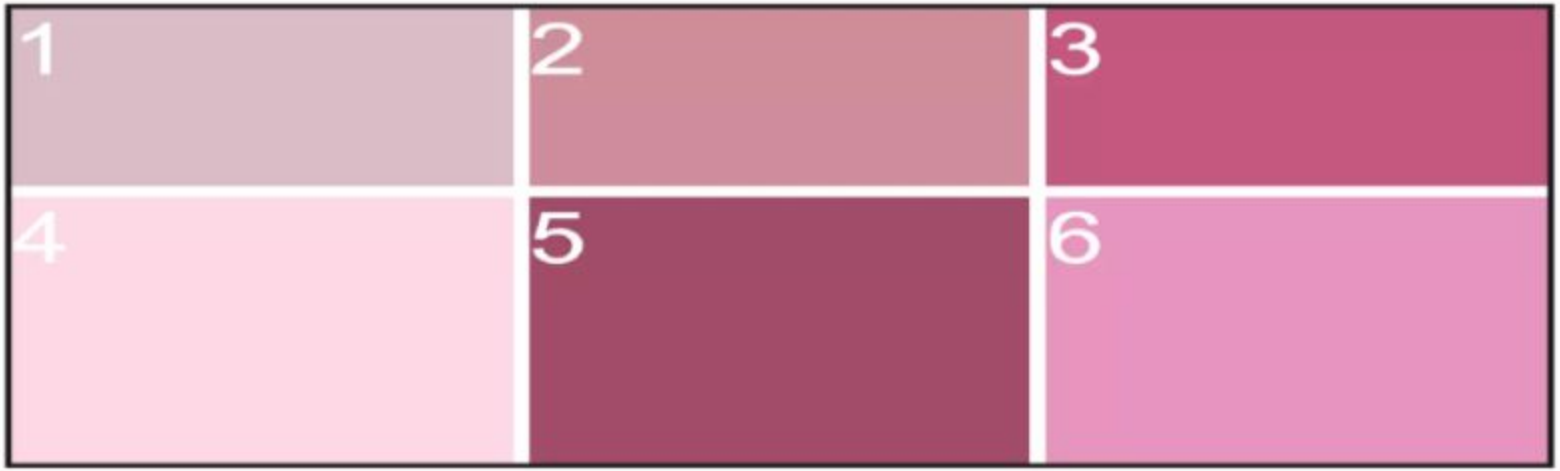
```css
.grid {
    display: grid;
    grid-template-columns: 200px 200px 200px;
}
```

```css
.grid {
    display: grid;
    grid-template-columns: repeat(3, 200px);
}
```



```html
<div class="grid">
    <div>1</div>
    <div>2</div>
    <div>3</div>
    <div>4</div>
    <div>5</div>
    <div>6</div>
</div>
```

```css
.grid {
    display: grid;
    grid-template-columns: repeat(3, 200px);
    grid-template-rows: 100px 150px;
    grid-gap: 100px;
}
```




Thank
You