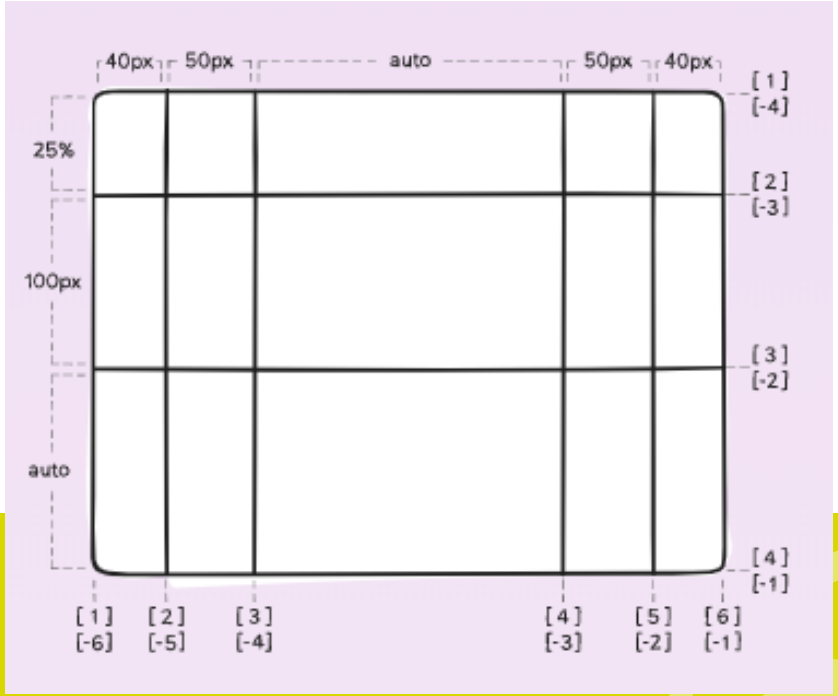
Layout

Grid CSS



CSS Grid

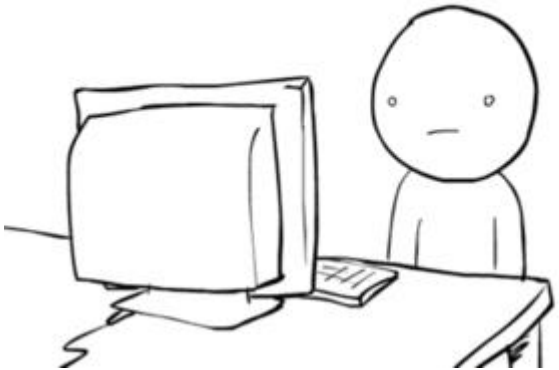
Ofrece un sistema de layout basado en filas y columnas.
Facilita el diseño web de páginas sin tener que usar floats y posicionamiento.

html

```
<div class=“my-grid-container">
      <div class="item">…</div>
      <div class="item">…</div>
      <div class="item">…</div>
      …
      …
      <div class="item">…</div>
</div>
```

display

```
.my-grid-container {
  display: grid | inline-grid;
}
```



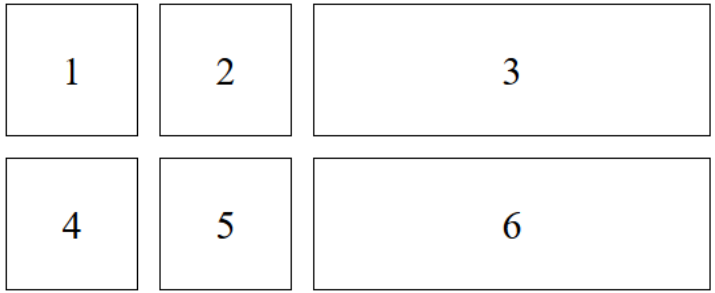
Let’s code !!!

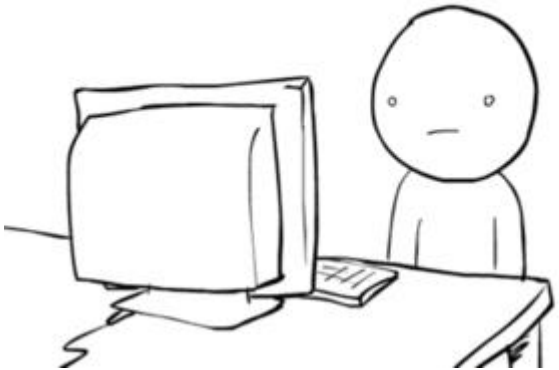
00-hello-css-grid

CSS Grid

grid-template-columns
grid-template-rows

```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```





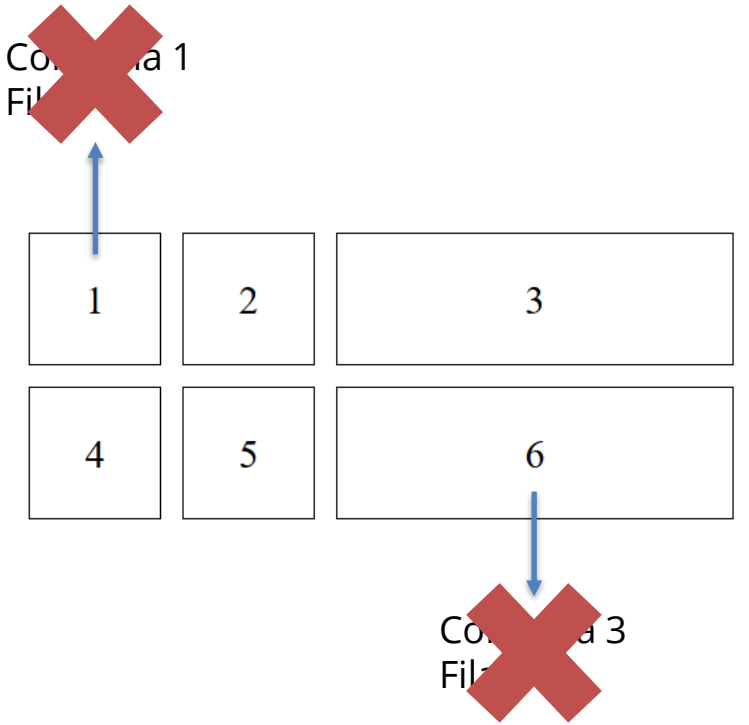
Let’s code !!!

01-rows-columns

CSS Grid

grid-template-columns
grid-template-rows

```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```

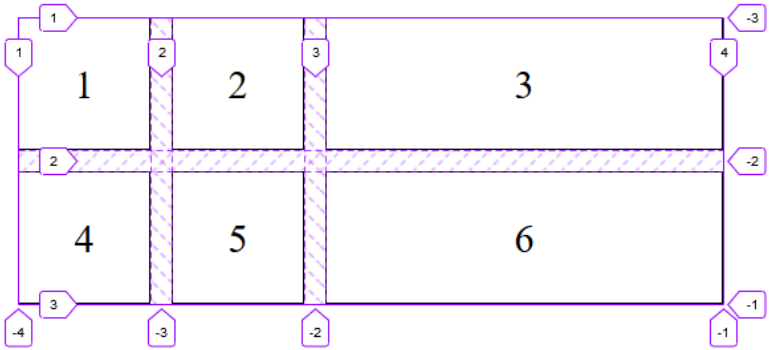


CSS Grid

grid-template-columns
grid-template-rows

```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```

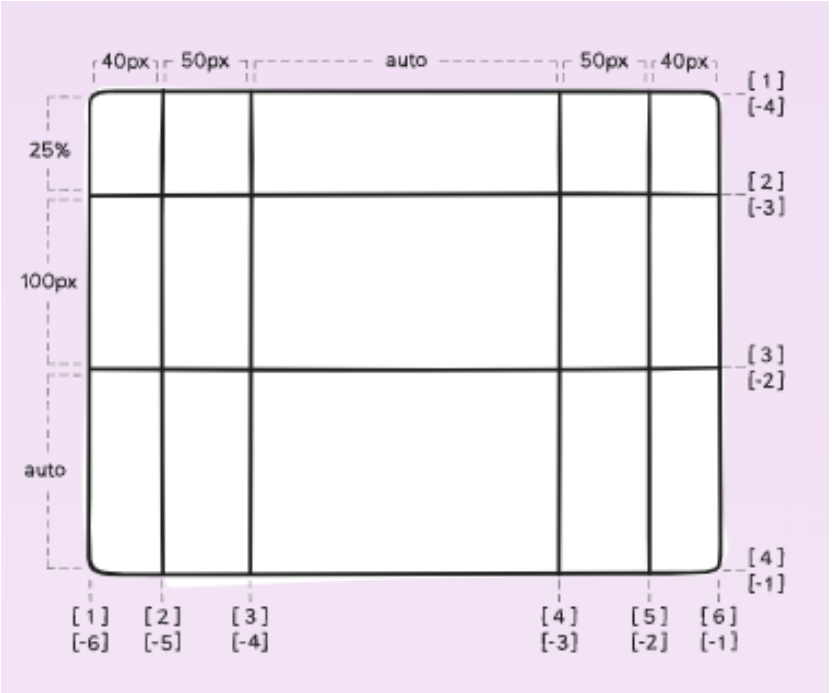
grid-lines

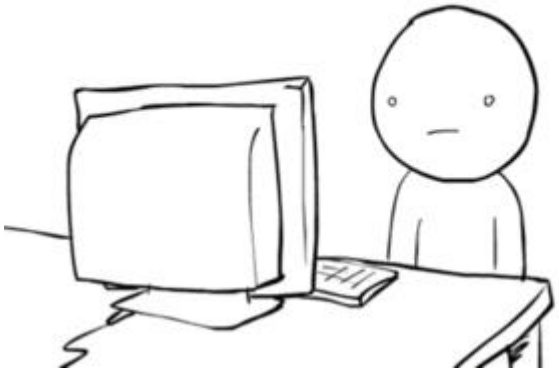


CSS Grid

grid-template-columns
grid-template-rows

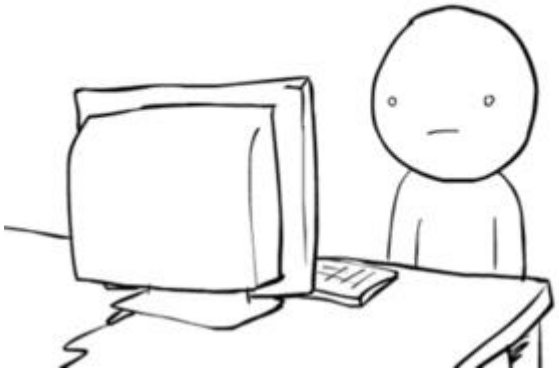
```
.my-grid-container {
  grid-template-columns: 40px 50px auto 50px 40px;
  grid-template-rows: 25% 100px auto;
}
```





Let’s code !!!

02-percentages



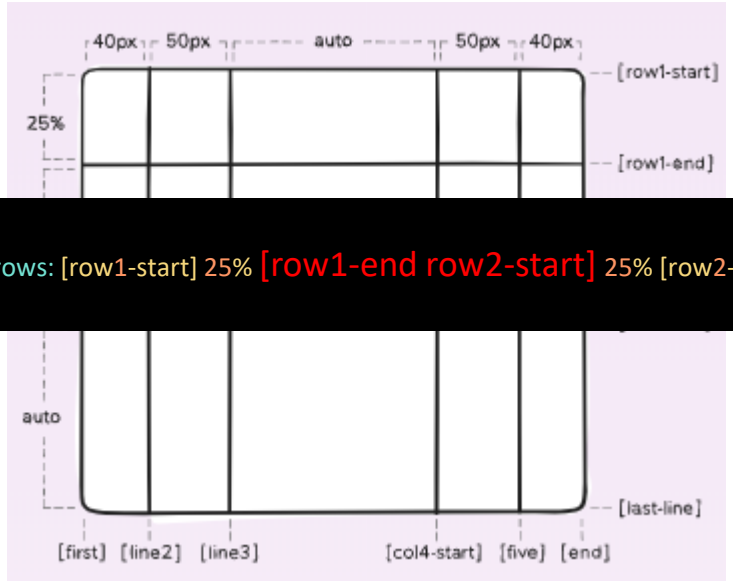
Let’s code !!!

03-fractions

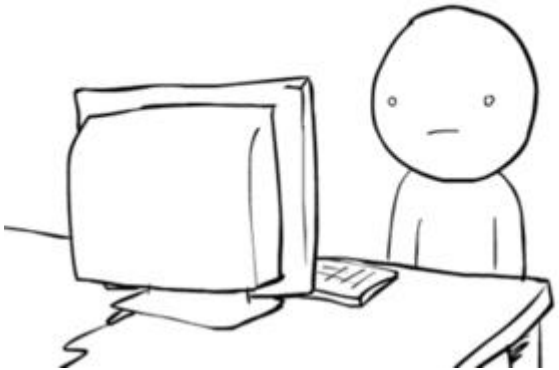
CSS Grid

grid-template-columns
grid-template-rows

```
.my-grid-container {
  grid-template-columns: [first] 40px [line2] 50px [line3] auto [col4-start] 50px [five] 40px [end];
  grid-template-rows: [row1-start] 25% [row1-end] 100px [third-line] auto [last-line];
}
```




```
.container {
grid-template-rows: [row1-start] 25% [row1-end row2-start] 25% [row2-end];
}
```



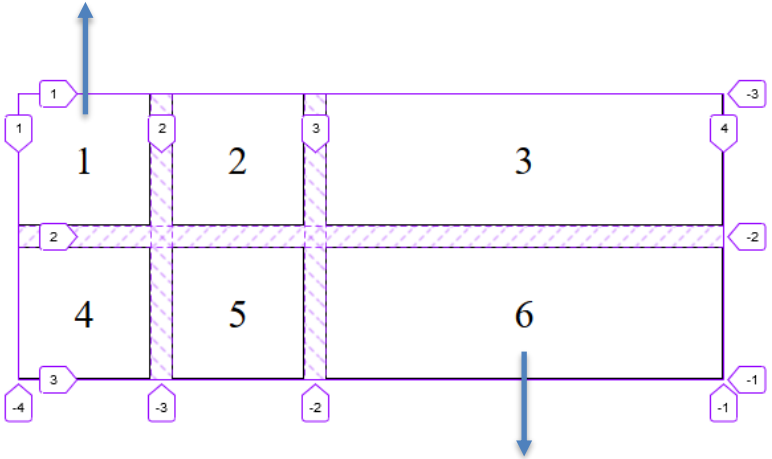
Let’s code !!!

04-naming-lines

CSS Grid

grid-column-start
grid-colum-end
grid-row-start
grid-row-end

```
.item-1 {
  grid-column-start: 1;
  grid-column-end: 2;
  grid-row-start: 1;
  grid-row-end: 2;
}
```

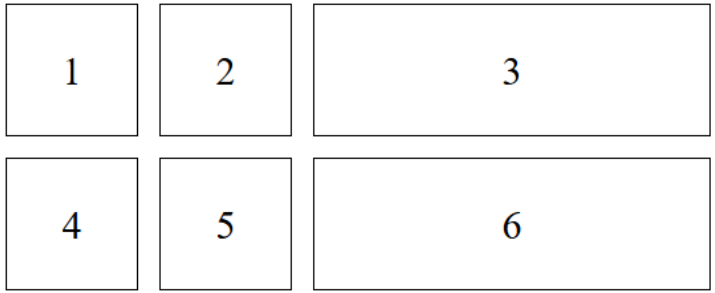



```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```

```
.item-6 {
  grid-column-start: 3;
  grid-column-end: 4;
  grid-row-start: 2;
  grid-row-end: 3;
}
```

CSS Grid

grid-column-start
grid-colum-end
grid-row-start
grid-row-end



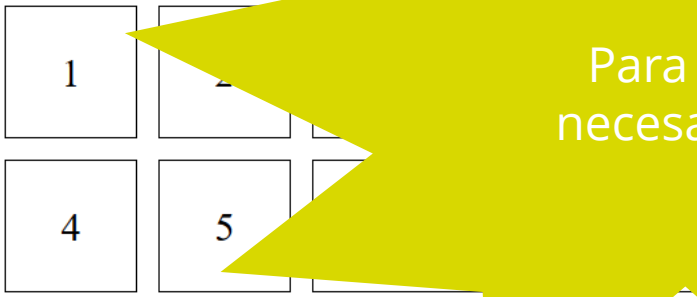

```
.item-1 {
  grid-column-start: 1;
  grid-column-end: 2;
  grid-row-start: 1;
  grid-row-end: 2;
}

.item-2 {
  grid-column-start: 2;
  grid-column-end: 3;
  grid-row-start: 1;
  grid-row-end: 2;
}

.item-3 {
  grid-column-start: 3;
  grid-column-end: 4;
  grid-row-start: 1;
  grid-row-end: 2;
}
```

```
.item-4 {
  grid-column-start: 1;
  grid-column-end: 2;
  grid-row-start: 2;
  grid-row-end: 3;
}

.item-5 {
  grid-column-start: 2;
  grid-column-end: 3;
  grid-row-start: 2;
  grid-row-end: 3;
}

.item-6 {
  grid-column-start: 3;
  grid-column-end: 4;
  grid-row-start: 2;
  grid-row-end: 3;
}
```

CSS Grid

SHORT HAND:

grid-column
grid-row




```
.item-1 {
  grid-column: 1 / 2;
  grid-row: 1 / 2;
}
```

```
.item-6 {
  grid-column: 3 / 4;
  grid-row: 2 / 3;
}
```

Esto sólo es el ejemplo de los valores que tomarían cada item por defecto: AUTO

Para este resultado no es necesario indicar cada celda

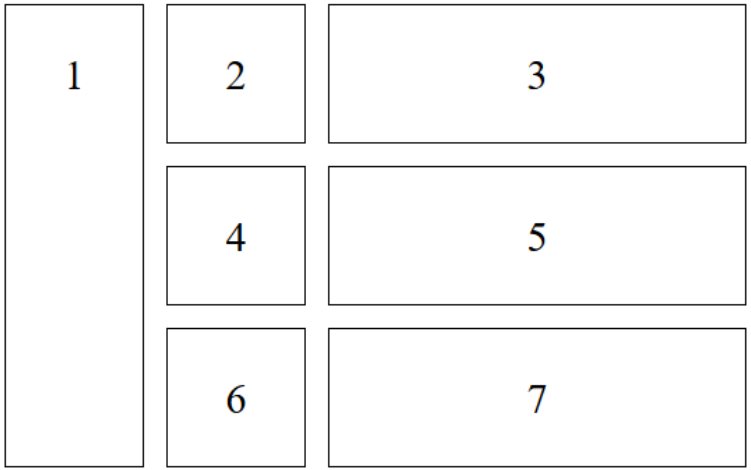
CSS Grid

SHORT HAND:

grid-column

grid-row

```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: [row1-start] 100px 100px 100px [last-row-line];
  gap: 1rem;
}
```




```
.item-1 {
  grid-row: 1 / 4;
}
```

```
.item-1 {
  grid-row: 1 / span 3;
}
```

```
.item-1 {
  grid-row: row1-start / span 3;
}
```

```
.item-1 {
  grid-row: row1-start / last-row-line;
}
```

CSS Grid

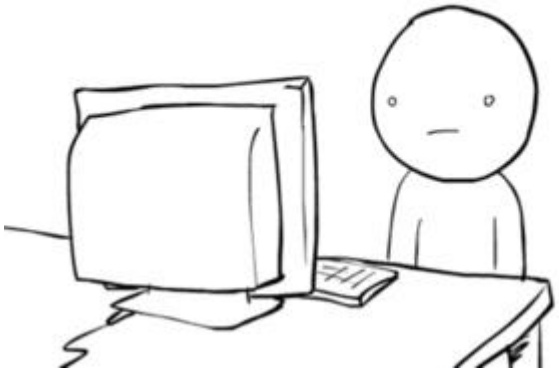
Notación <repeat>

```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 100px 100px 100px 300px [last-col-line];
  grid-template-rows: [row-start] 100px [row-start] 100px [last-row-line];
}
```

```
.my-grid-container {
  display: grid;
  grid-template-columns: repeat(5, 100px) 300px [last-col-line];
  grid-template-rows: repeat(2, [row-start] 100px) [last-row-line];
}
```

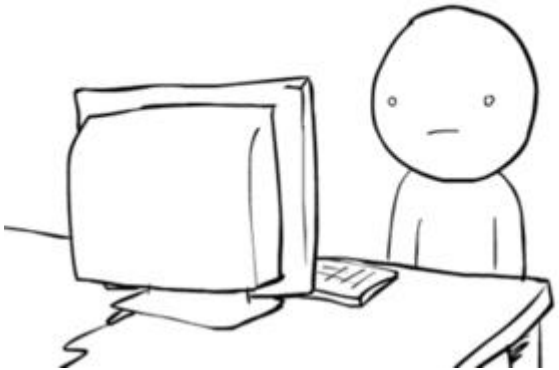
Si varias líneas comparten el mismo nombre,
Se pueden referenciar por el nombre y el índice

```
.nav {
  grid-row: row-start 2 / last-row-line;
}
```



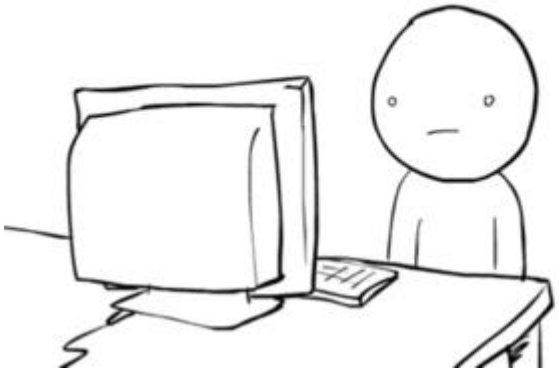
Let’s code !!!

05-positioning-items



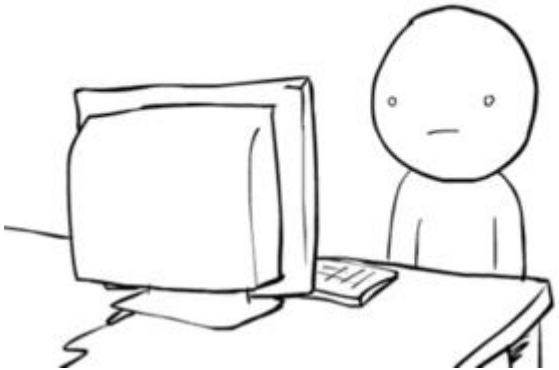
Let’s code !!!

06-negative-positioning



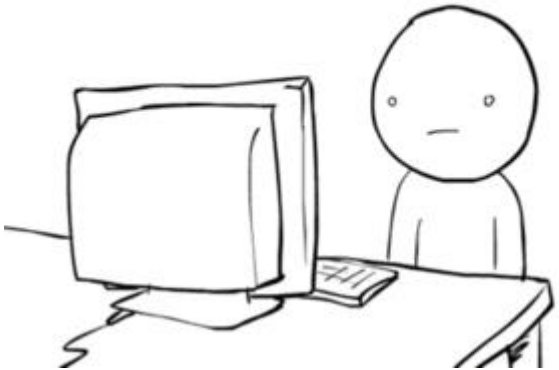
Let’s code !!!

07
-inline-grid



Let’s code !!!

08-auto-flow

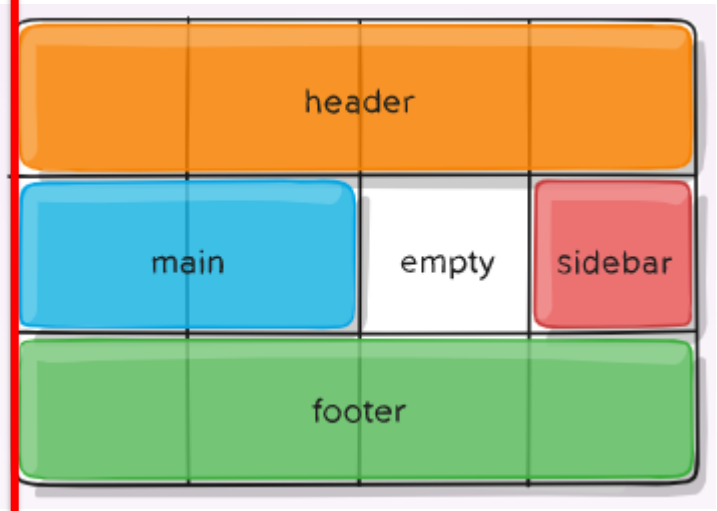


Let’s code !!!

09-auto-rows

Grid CSS

AREAS



Las líneas se nombran automáticamente para el inicio y fin de las filas y columnas. Esto implica que una línea puede tener múltiples nombres. En este ejemplo, la primera línea vertical izquierda puede referenciarse como: **header-start, main-start y footer-start.**

Contenedor:

```
.container {
  display: grid;
  grid-template-columns: 50px 50px 50px 50px;
  grid-template-rows: auto;
  grid-template-areas:
    "header header header header"
    "main main . sidebar"
    "footer footer footer footer";
}
```

Areas:

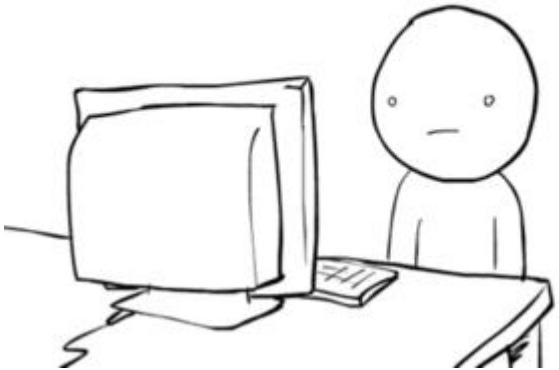
```
.item-a {
  grid-area: header;
}
.item-b {
  grid-area: main;
}
.item-c {
  grid-area: sidebar;
}
.item-d {
  grid-area: footer;
}
```

Grid CSS

SHORT HAND: grid-template

```
.container-1 {
  display: grid;
  grid-template-rows: [row1-start] 1fr [row1-end row2-start] 4fr [row2-end row3-start] 1fr [row3-end];
  grid-template-columns: 1fr 50px 4fr;
  grid-template-areas:
    "header header header"
    "main . sidebar"
    "footer footer footer";
}
```

```
.container {
  display: grid;
  grid-template:
    [row1-start] "header header header" 1fr [row1-end]
    [row2-start] "main . sidebar" 4fr [row2-end]
    [row3-start] "footer footer footer" 1fr [row3-end]
    / 1fr 50px 4fr;
}
```

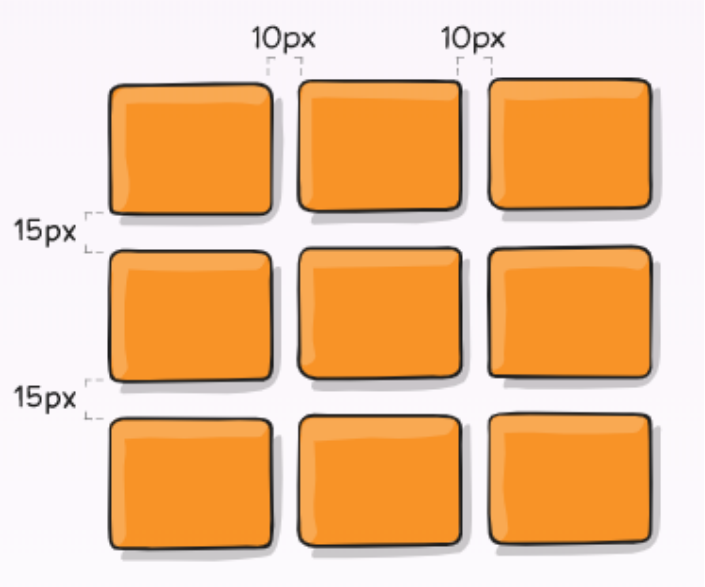


Let’s code !!!

10-areas

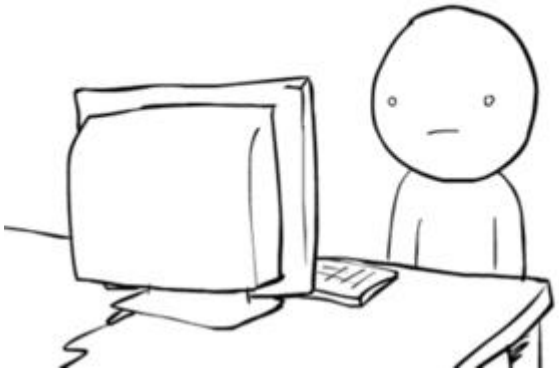
Grid CSS

column-gap
row-gap



SHORT HAND
gap: <row-gap> <columna-gap>

```css
.container {
  grid-template-columns: 100px 50px 100px;
  grid-template-rows: 80px auto 80px;
  gap: 15px 10px;
}
```



Let’s code !!!

11-gap

Grid CSS

justify-i

Organiza los *"items"* en referencia al eje *inline* (fila, horizontal)
dentro del contenedor
en el eje vertical)

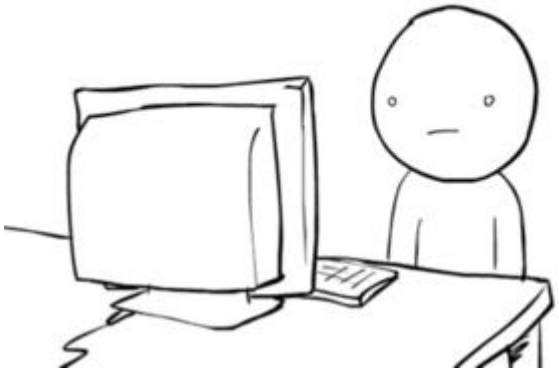
```
.container {
  justify-i
}
```

CSS

Este comportamiento puede ser aplicado a un item concreto con la propiedad **justify-self**

```
}
```

CSS



Let’s code !!!

12-justify-items

Grid CSS

align-it

Organiza los *"items"* en referencia al eje vertical (columna)
dentro del contenedor
en el eje horizontal)

```
.container {
  align-ite
}
```

CSS

```
.c
}
```

CSS

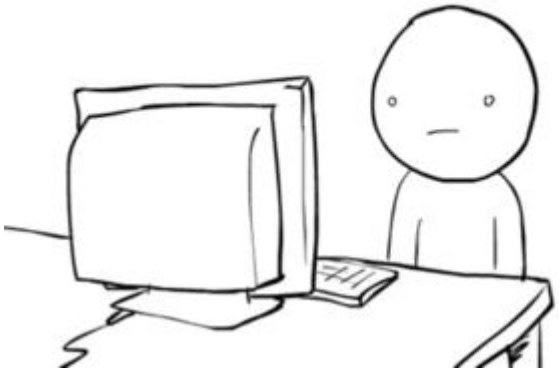
Este comportamiento puede ser aplicado a un item concreto con la propiedad

align-self

Grid CSS
place-items

SHORT HAND: place-items

Define los valores de las dos propiedades anteriores en una sóla declaración:
place-items: <align-items> <justify-items>
Si sólo se define un valor, se asigna a las dos propiedades.

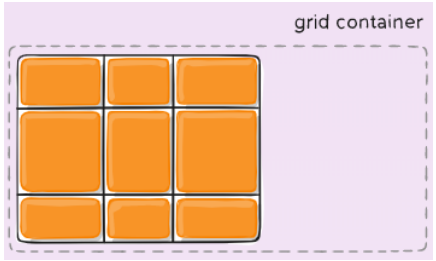


Let’s code !!!

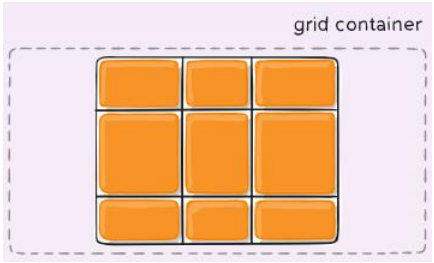
13-align-items

Grid CSS
justify-content

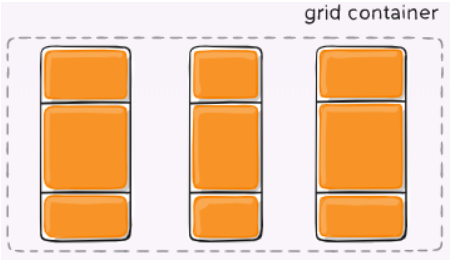
justify-content: start



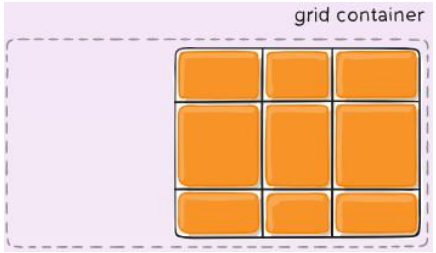
justify-content: center



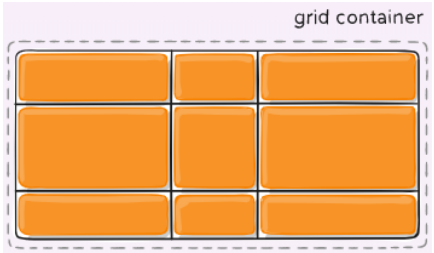
justify-content: space-around



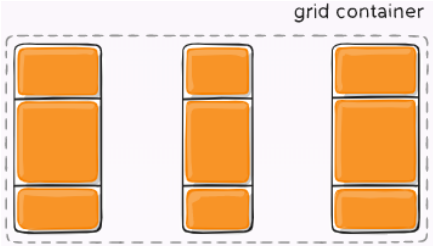
justify-content: end



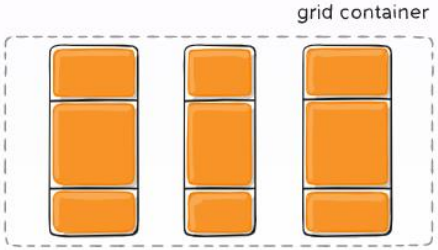
justify-content: stretch

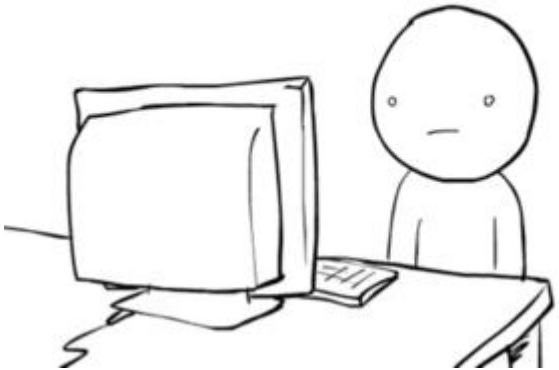


justify-content: space-between



justify-content: space-evenly





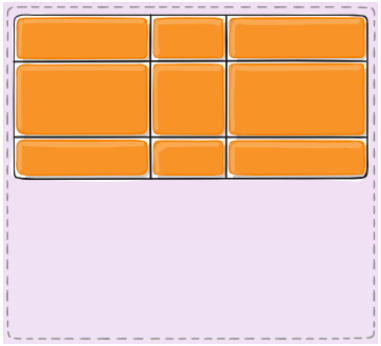
Let’s code !!!

14-justify-content

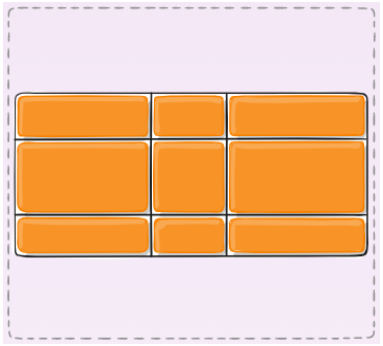
Grid CSS

align-content

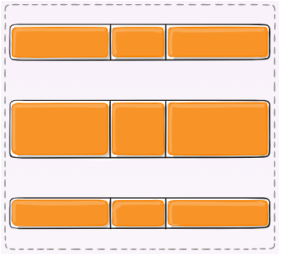
align-content: start



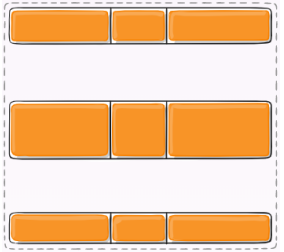
align-content: center



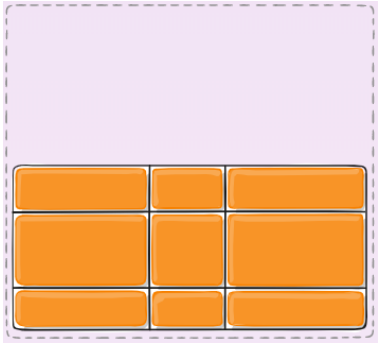
align-content: space-around



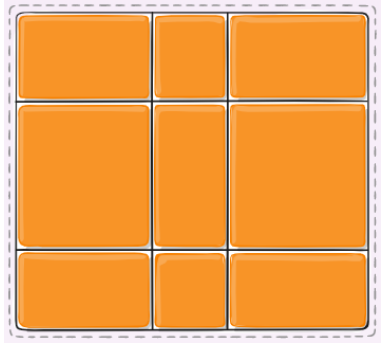
align-content: space-between



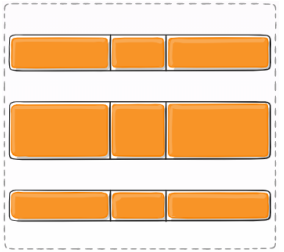
align-content: end



align-content: stretch



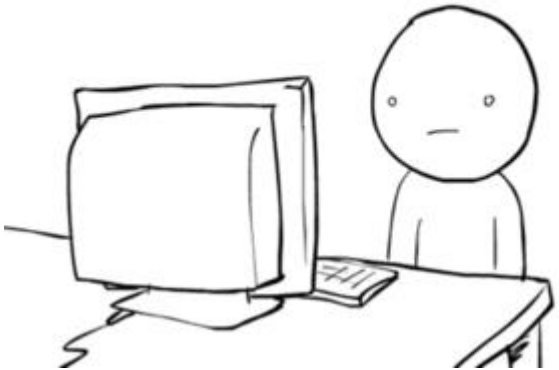
align-content: space-evenly



Grid CSS
place-content

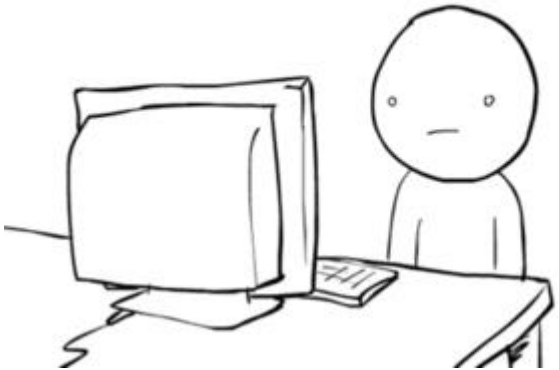
SHORT HAND: place-content

Define los valores de las dos propiedades anteriores en una sóla declaración:
place-content: <align-content> <justify-content>
Si sólo se define un valor, se asigna a las dos propiedades.



Let’s code !!!

15-align-content



Let’s code !!!

16-extra

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