Layout

Grid CSS

CSS Grid

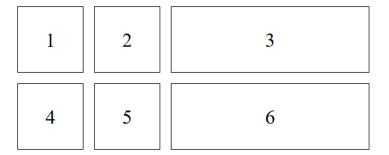
Ofrece un sistema de layout basado en filas y columnas. Facilita el diseño web de páginas sin tener que usar floats y posicionamiento.

html

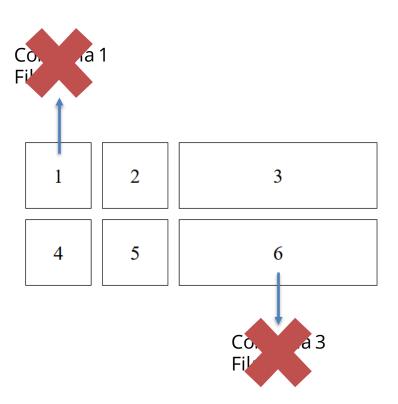
display

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

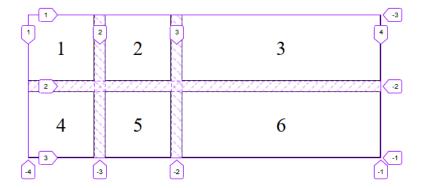
```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```



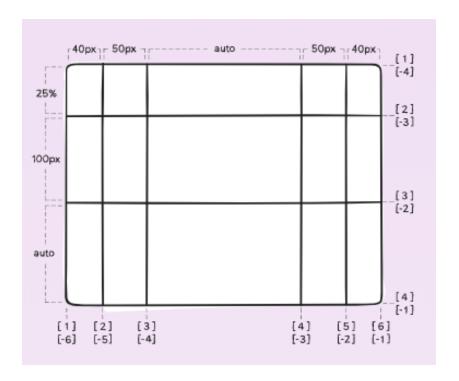
```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```



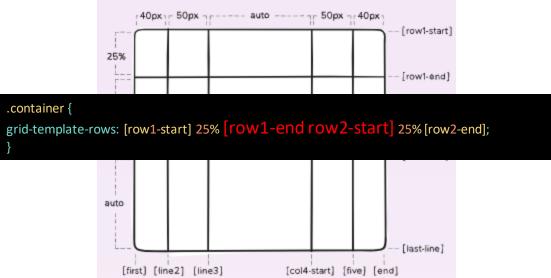
```
.my-grid-container {
  display: grid;
  grid-template-columns: 100px 100px 300px;
  grid-template-rows: 100px 100px;
}
```



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



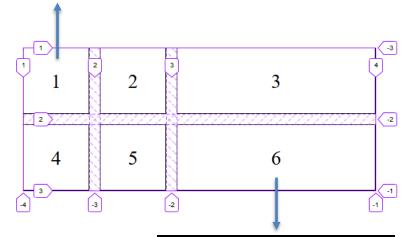
```
.my-grid-container {
   grid-template-columns: [first] 40px [line2] 50px [line3] auto [col4-start] 50px [five] 40px [end];
   grid-template-rows: [row1-start] 25% [row1-end] 100px [third-line] auto [last-line];
}
```



CSS Grid grid-column-start grid-colum-end grid-row-start grid-row-end

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

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



```
.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

 1
 2

 4
 5

 6

```
.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
 rid-row: 1 / 2;

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

AUTO

Para este resultado no es necesario indicar cada celda

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

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;
}
```

```
    1
    2
    3

    4
    5

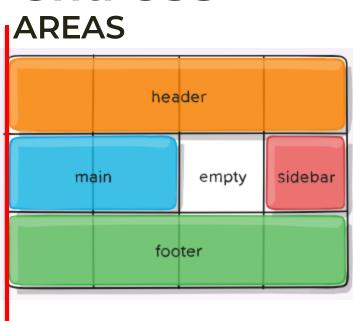
    6
    7
```

```
.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;
```

Grid CSS



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"
    "main main . sidebar"
    "footer footer footer";
}
```

Areas:

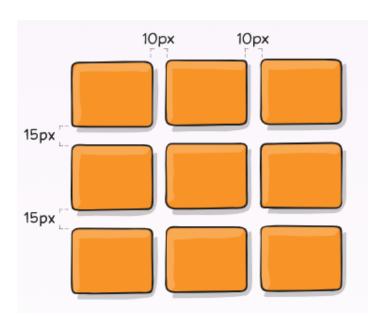
```
.item-a {
   grid-area: header;
}
.item-b {
   grid-area: main;
}
.item-c {
   grid-area: sidebar;
}
.item-d {
   grid-area: footer;
}
```

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;
}
```

Grid CSS column-gap row-gap



SHORT HAND

gap: <row-gap> <columna-gap>

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





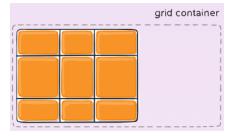
Grid CSS place-items

SHORT HAND: place-items

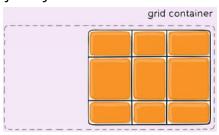
Define los valores de las dos propiedades anteriores en una sóla declaración: place-items: <align-items> / <justify-items> Si sólo se define un valor, se asigna a las dos propiedades.

Grid CSS justify-content

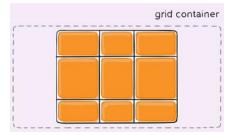
justify-content: start



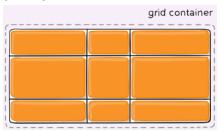
justify-content: end



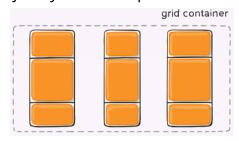
justify-content: center



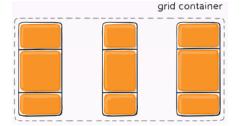
justify-content: stretch



justify-content: space-around



justify-content: space-between

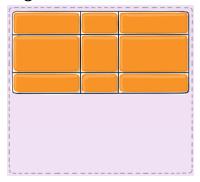


justify-content: space-evenly

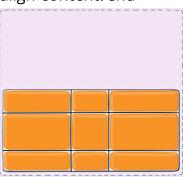
grid container

Grid CSS align-content

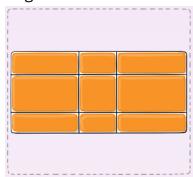
align-content: start



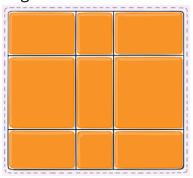
align-content: end



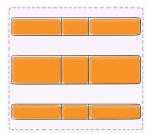
align-content: center



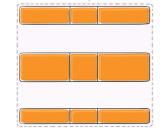
align-content: stretch



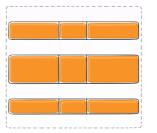
align-content: space-around



align-content: space-between



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.









