



CSS Grid

Sistema de grid bidimensional para CSS

https://developer.mozilla.org/es/docs/Web/CSS/CSS_grid_layout



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Agenda

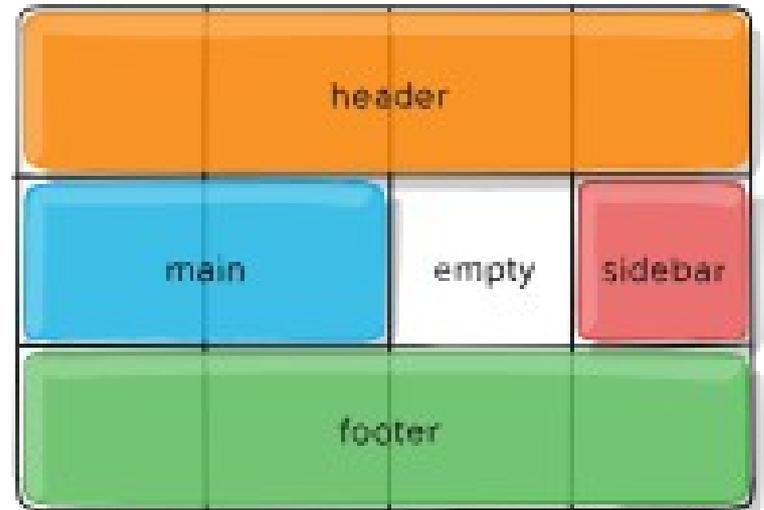
1. CSS Grid
2. Terminología
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7. Propiedades de Grid container
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CSS Grid

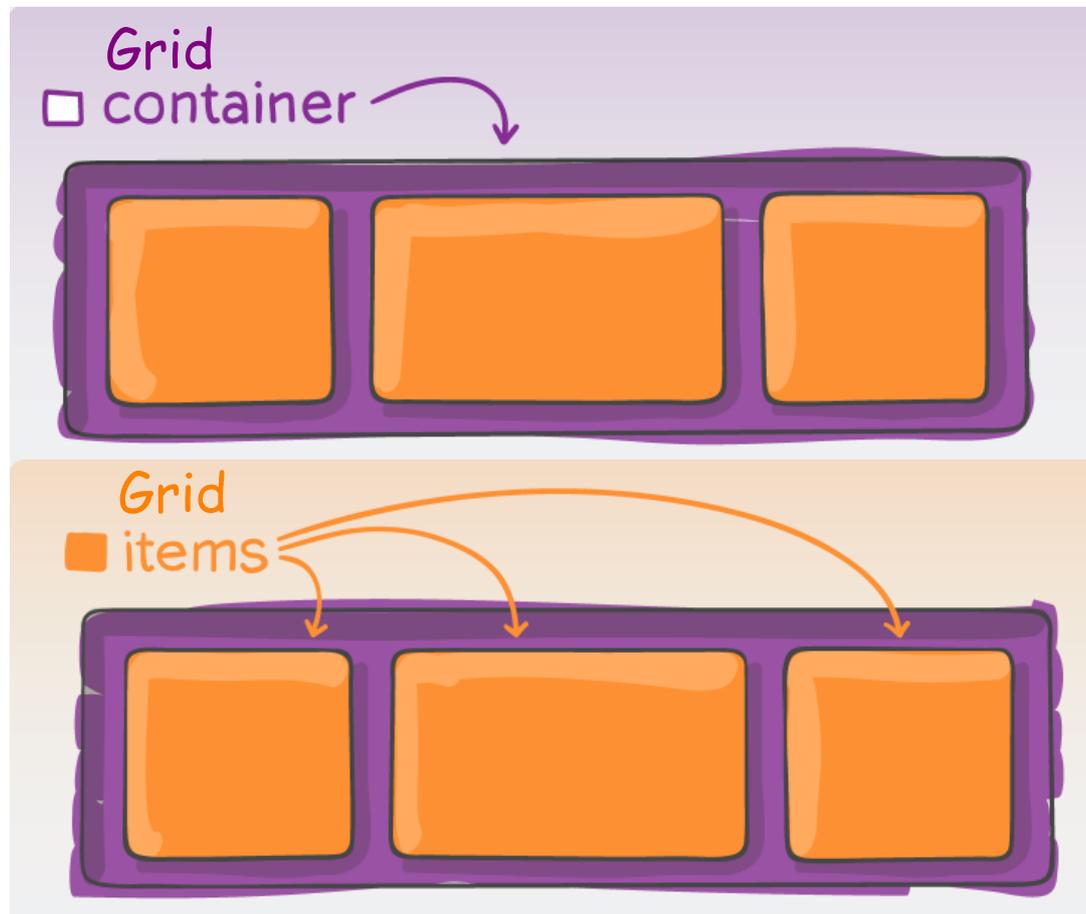
Es un sistema de **grid bidimensional** para CSS. Se utiliza para posicionar áreas principales de la página o pequeños elementos de la interfaz de usuario.

Permitir dividir una página en áreas o regiones principales.

```
container-selector {  
  display: grid;  
}
```

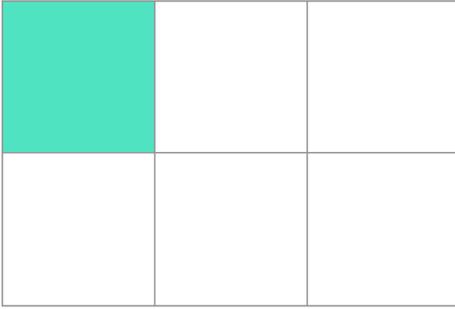


Terminología

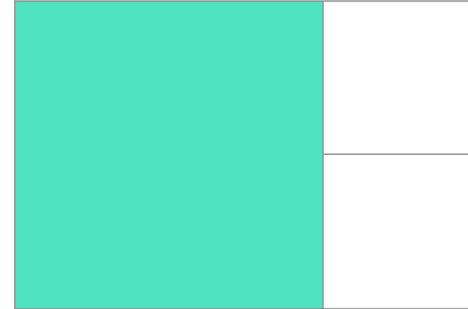


Terminología

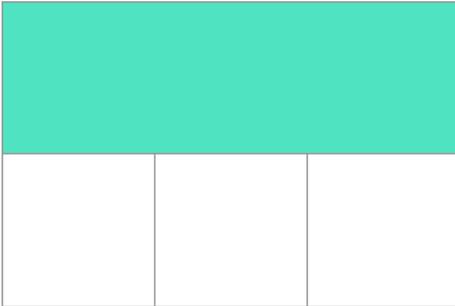
Cell



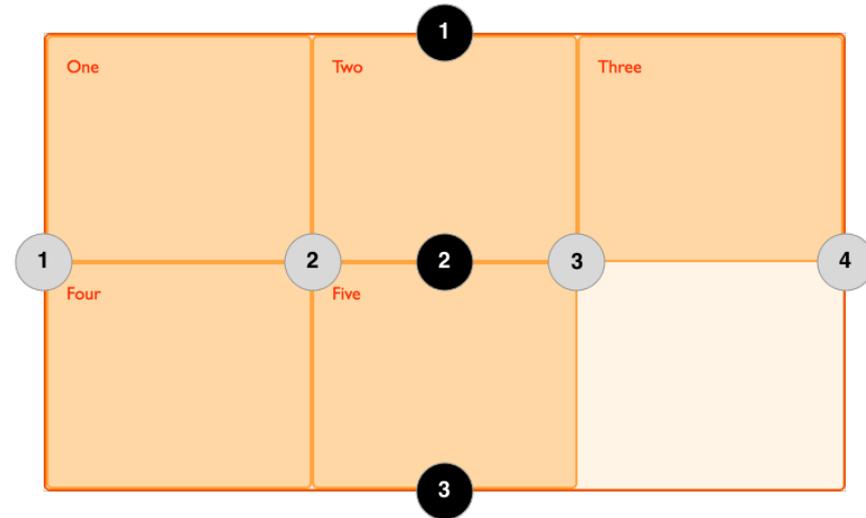
Area



Track



Lines



Filas y columnas

Filas definidas

```
container-selector {  
  display: grid;  
  grid-auto-flow: row;  
  grid-template-rows: 100px 1fr;  
}
```

Filas automáticas

```
container-selector {  
  display: grid;  
  grid-auto-flow: row;  
  grid-template-columns: 100px 200px;  
  grid-auto-rows: 150px;  
}
```

Columnas definidas

```
container-selector {  
  display: grid;  
  grid-auto-flow: row;  
  grid-template-columns: 100px 1fr;  
}
```

Columnas automáticas

```
container-selector {  
  display: grid;  
  grid-auto-flow: column;  
  grid-template-rows: 100px 200px;  
  grid-auto-columns: 150px;  
}
```

Funciones especiales

minmax

```
container-selector {  
  display: grid;  
  grid-template-rows: 10px minmax(10px, 30px) 5px;  
}
```

repeat

```
container-selector {  
  display: grid;  
  grid-template-columns: 5px repeat(3, 8px) 5px;  
}
```

<https://developer.mozilla.org/en-US/docs/Web/CSS/minmax>

<https://developer.mozilla.org/en-US/docs/Web/CSS/repeat>

Funciones especiales

min-content

```
container-selector {  
  display: grid;  
  grid-template-rows: 10px min-content 5px;  
}
```

max-content

```
container-selector {  
  display: grid;  
  grid-template-rows: 5px max-content 5px;  
}
```

Funciones especiales

auto-fit

```
container-selector {  
  display: grid;  
  grid-template-rows: 100px repeat(auto-fit, minmax(2px, 1fr));  
}
```

auto-fill

```
container-selector {  
  display: grid;  
  grid-template-rows: repeat(auto-fill, minmax(3px, 2fr)) 50px;  
}
```

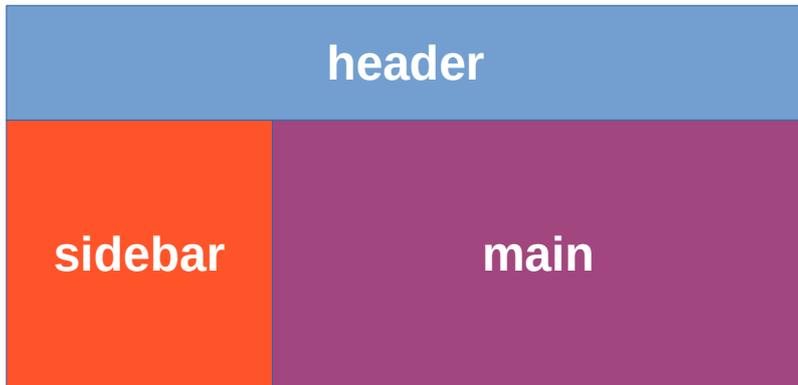
Valores validos

```
container-selector {  
  display: grid;  
  grid-template-rows: 9px repeat(auto-fit, minmax(2px, 1fr)) min-content;  
  grid-template-columns: 2fr 10vw 15% auto minmax(20px, 1fr) max-content;  
}
```

Areas

Container

```
container-selector {  
  display: grid;  
  grid-template-areas:  
    "header header header"  
    "sidebar main main";  
}
```



Items

```
selector0 {  
  grid-area: header;  
}  
  
selector1 {  
  grid-area: sidebar;  
}  
  
selector2 {  
  grid-area: main;  
}
```

Definiendo áreas de grid item

grid-row-start

grid-row-end

Shorthand grid-row

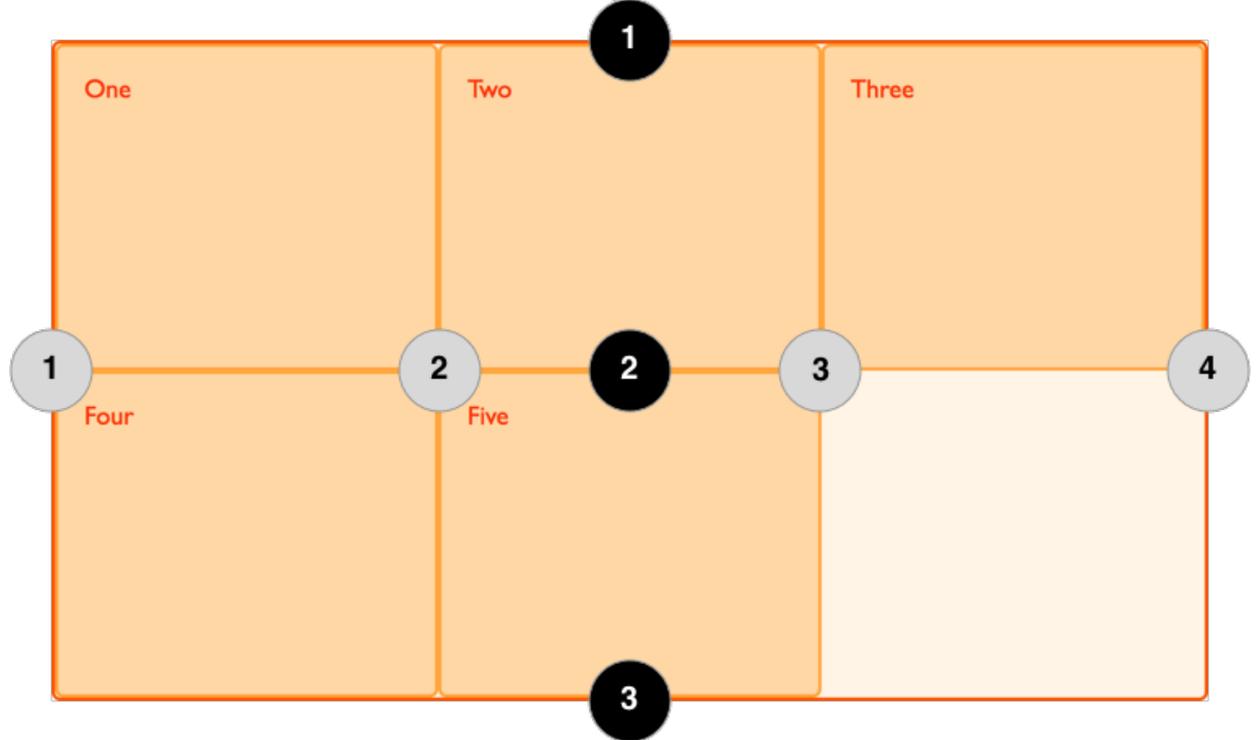
grid-column-start

grid-column-end

Shorthand grid-col

Shorthand

grid-area



<https://developer.mozilla.org/en-US/docs/Web/CSS/grid-row>

<https://developer.mozilla.org/en-US/docs/Web/CSS/grid-column>

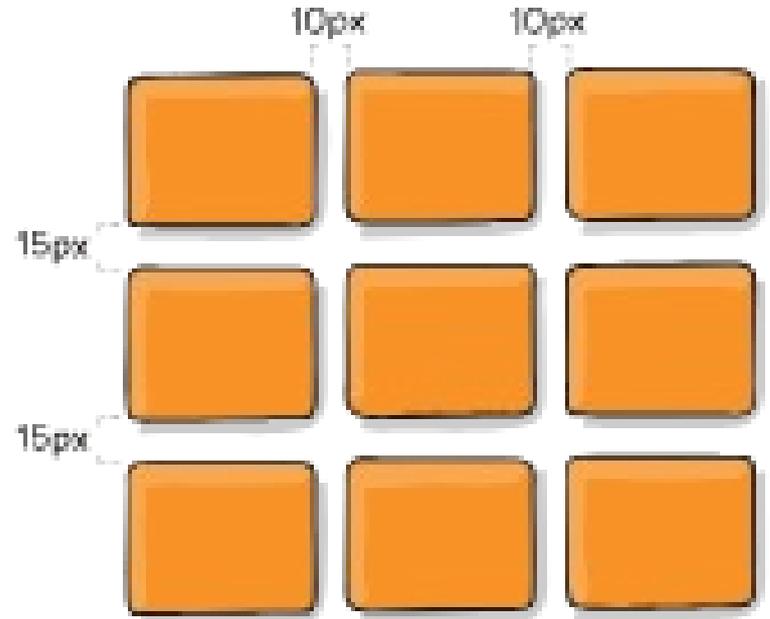
<https://developer.mozilla.org/en-US/docs/Web/CSS/grid-area>

gap, row-gap, column-gap

Espacio entre filas y columnas

```
container-selector {  
  display: grid;  
  grid-row-gap: 15px;  
  grid-column-gap: 10px;  
}
```

```
container-selector {  
  display: grid;  
  grid-gap: 15px 10px;  
}
```



Propiedades de Grid container

justify-content, align-content

Valores:

start
end
center
stretch
space-between
space-around
space-evenly

justify-items, align-items

Valores:

start
end
center
stretch

Propiedades de Grid item

Justify-self, align-self

Valores

start

end

center

stretch