



# Pseudo clases, pseudo elementos y grid



**My website before adding CSS**



**My website after adding CSS**



Sí, bueno, es demasiado específico como para encontrar un meme que se ajuste al tema...



# Pseudo clases

Según mozilla, “Una **pseudoclase CSS** es una palabra clave que se añade a los selectores y que especifica un estado especial del elemento seleccionado.”

Ya sabemos usar algunas!

```
div:hover {  
  background-color: #F89B4D;  
}
```



Las pseudoclases son:

- `:active`
- `:checked`
- `:default`
- `:dir()`
- `:disabled`
- `:empty`
- `:enabled`
- `:first`
- `:first-child`
- `:first-of-type`
- `:fullscreen`
- `:focus`
- `:hover`
- `:indeterminate`
- `:in-range`
- `:invalid`
- `:lang()`
- `:last-child`
- `:last-of-type`
- `:left`
- `:link`
- `:not()`
- `:nth-child()`
- `:nth-last-child()`
- `:nth-last-of-type()`
- `:nth-of-type()`
- `:only-child`
- `:only-of-type`
- `:optional`
- `:out-of-range`
- `:read-only`
- `:read-write`
- `:required`
- `:right`
- `:root`
- `:scope (en-US)`
- `:target`
- `:valid`
- `:visited`



De ellas, las que más se usan suelen ser:

- `:hover`
- `:active`
- `:visited`
- `:focus`
- `:disabled`
- `:first-child`
- `:last-child`
- `nth-child()` => entre paréntesis ponemos el número de elemento hijo
- `:not()` => está buenísima si queremos que afecte a todos menos a, por ej, los que tienen cierta class



# Pseudo elementos

Según mozilla, “Al igual que las [pseudo-classes](#), los pseudo-elementos se añaden a los selectores, pero en cambio, no describen un estado especial sino que, permiten añadir estilos a una parte concreta del documento. Por ejemplo, el pseudoelemento [::first-line](#) selecciona solo la primera línea del elemento especificado por el selector.”

```
selector::pseudo-elemento { propiedad: valor; }
```



Hay bastantes menos que pseudo clases, aunque son un poquito más tricky de usar:

- `::after`
- `::before`
- `::first-letter`
- `::first-line`
- `::selection`
- `::backdrop`
- `::placeholder` ⚠
- `::marker` ⚠
- `::spelling-error` ⚠
- `::grammar-error` (en-US) ⚠

## Notas

De vez en cuando se utilizan dos puntos dobles (::) en vez de solo uno (.). Esto forma parte de CSS3 y de un intento para distinguir pseudo-elementos de pseudo-clases.

**Nota:** `::selection` siempre se escribe con dos puntos dobles (::).

Solo se puede usar un pseudo-elemento por selector. Debe aparecer después del selector simple.



# Bueno, y ahora sí a los grid!

Siempre leyendo la documentación oficial, nos enteramos que “**CSS Grid layout** contiene funciones de diseño dirigidas a los desarrolladores de aplicaciones web. El CSS grid se puede utilizar para lograr muchos diseños diferentes. También se destaca por permitir dividir una página en áreas o regiones principales, por definir la relación en términos de tamaño, posición y capas entre partes de un control construido a partir de primitivas HTML.

Al igual que las tablas, el grid layout permite a un autor alinear elementos en columnas y filas. Sin embargo, con CSS grid son posibles muchos más diseños y de forma más sencilla que con las tablas. Por ejemplo, los elementos secundarios de un contenedor de cuadrícula podrían posicionarse para que se solapen y se superpongan, de forma similar a los elementos posicionados en CSS.”

“





Básicamente es similar a flex en cierto punto, solo que podemos controlar rows, col, o ambos.

No van a encontrar algo mejor que esto: <https://css-tricks.com/snippets/css/complete-guide-grid/> , pero yo sé que les gustan mis capturas así que se las dejo.

### **display**

Igual que ponerlo como flex, no?

Defines the element as a grid container and establishes a new grid formatting context for its contents.

Values:

- **grid** – generates a block-level grid
- **inline-grid** – generates an inline-level grid

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

CSS



## 🔗 grid-template-columns

### grid-template-rows

Defines the columns and rows of the grid with a space-separated list of values. The values represent the track size, and the space between them represents the grid line.

Values:

- **<track-size>** – can be a length, a percentage, or a fraction of the free space in the grid (using the **fr** unit)
- **<line-name>** – an arbitrary name of your choosing

```
.container {  
  grid-template-columns: ... ...;  
  /* e.g.  
    1fr 1fr  
    minmax(100px, 1fr) 3fr  
    repeat(5, 1fr)  
    50px auto 100px 1fr  
  */  
  grid-template-rows: ... ...;  
  /* e.g.  
    min-content 1fr min-content  
    100px 1fr max-content  
  */  
}
```

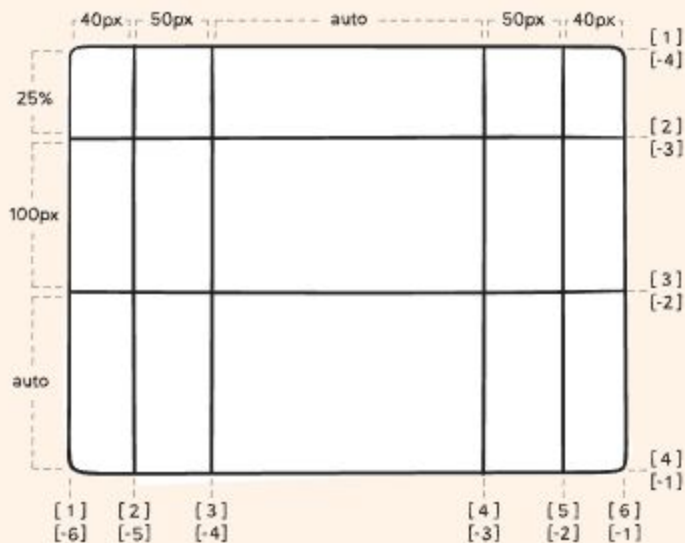
fr resulta que es fracción:

```
.grid {  
  display: grid;  
  grid-template-columns: repeat(4, 1fr);  
  grid-column-gap: 10px;  
}
```

Esto generaría 4 columnas (4), cada una de 1 unidad (1fr), y todas tendrían en cuenta que tienen que tener un gap de 10px entre ellas.



Grid lines are automatically assigned positive numbers from these assignments (-1 being an alternate for the very last row).



## 🔗 **grid-template-areas**

Defines a grid template by referencing the names of the grid areas which are specified with the [grid-area](#) property.

Repeating the name of a grid area causes the content to span those cells. A period signifies an empty cell. The syntax itself provides a visualization of the structure of the grid.

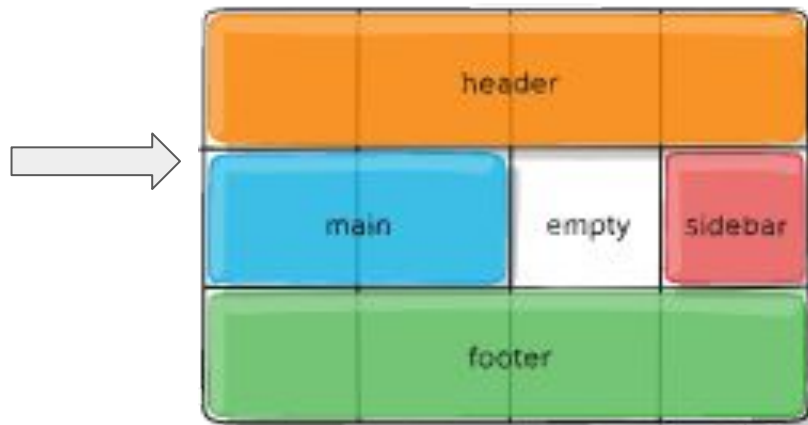
Values:

- **<grid-area-name>** – the name of a grid area specified with [grid-area](#)
- **.** – a period signifies an empty grid cell
- **none** – no grid areas are defined



Example:

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



```
.container {  
  grid-template:  
    [row1-start] "header header header" 25px [row1-end]  
    [row2-start] "footer footer footer" 25px [row2-end]  
    / auto 50px auto;  
}
```

That's equivalent to this:

```
.container {  
  grid-template-rows: [row1-start] 25px [row1-end row2-start] ;  
  grid-template-columns: auto 50px auto;  
  grid-template-areas:  
    "header header header"  
    "footer footer footer";  
}
```



column-gap

row-gap

grid-column-gap

grid-row-gap

Specifies the size of the grid lines. You can think of it like setting the width of the gutters between the columns/rows.

Values:

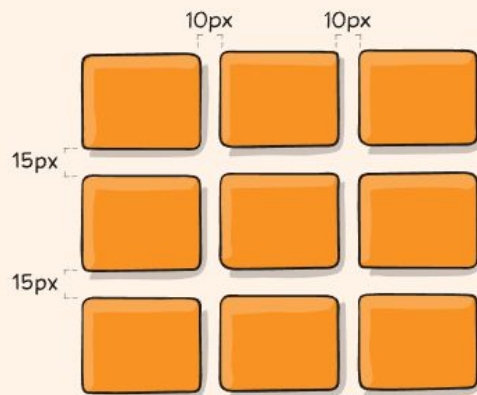
- **<line-size>** – a length value

```
.container {  
  /* standard */  
  column-gap: <line-size>;  
  row-gap: <line-size>;  
  
  /* old */  
  grid-column-gap: <line-size>;  
  grid-row-gap: <line-size>;  
}
```



Example:

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



The gutters are only created *between* the columns/rows, not on the outer edges.





## 🗨 justify-items

Aligns grid items along the *inline (row)* axis (as opposed to [align-items](#) which aligns along the *block (column)* axis). This value applies to all grid items inside the container.

Values:

- **start** – aligns items to be flush with the start edge of their cell
- **end** – aligns items to be flush with the end edge of their cell
- **center** – aligns items in the center of their cell
- **stretch** – fills the whole width of the cell (this is the default)

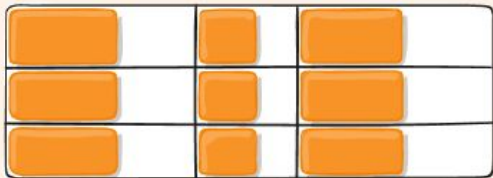
```
.container {  
  justify-items: start | end | center | stretch;  
}
```

CSS

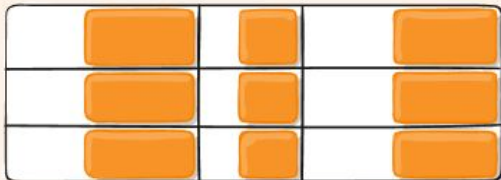


Examples:

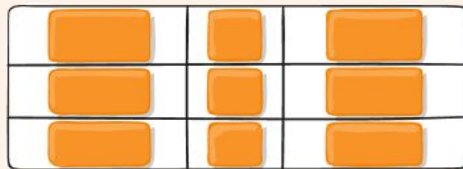
```
.container {  
  justify-items: start;  
}
```



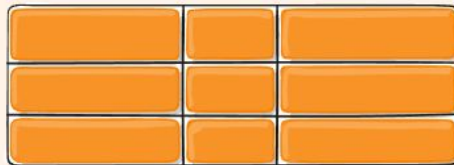
```
.container {  
  justify-items: end;  
}
```



```
.container {  
  justify-items: center;  
}
```



```
.container {  
  justify-items: stretch;  
}
```



This behavior can also be set on individual grid items via the [justify-self](#) property.



## 🔗 align-items

Aligns grid items along the *block (column)* axis (as opposed to [justify-items](#) which aligns along the *inline (row)* axis). This value applies to all grid items inside the container.

Values:

- **start** – aligns items to be flush with the start edge of their cell
- **end** – aligns items to be flush with the end edge of their cell
- **center** – aligns items in the center of their cell
- **stretch** – fills the whole height of the cell (this is the default)

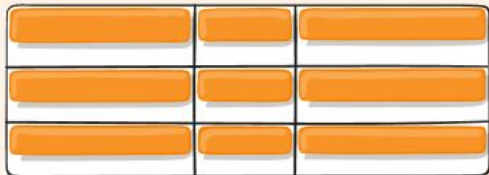
```
.container {  
  align-items: start | end | center | stretch;  
}
```

CSS

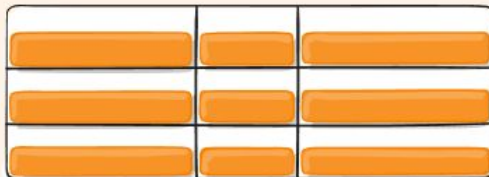


Examples:

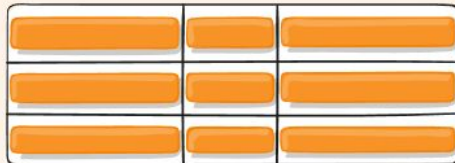
```
.container {  
  align-items: start;  
}
```



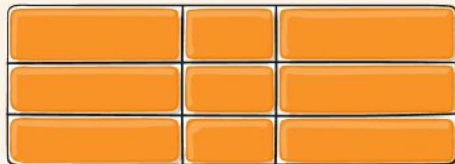
```
.container {  
  align-items: end;  
}
```



```
.container {  
  align-items: center;  
}
```



```
.container {  
  align-items: stretch;  
}
```



This behavior can also be set on individual grid items via the [align-self](#) property.



## 🔗 justify-content

Sometimes the total size of your grid might be less than the size of its grid container. This could happen if all of your grid items are sized with non-flexible units like px. In this case you can set the alignment of the grid within the grid container. This property aligns the grid along the *inline (row)* axis (as opposed to [align-content](#) which aligns the grid along the *block (column)* axis).



Values:

- **start** – aligns the grid to be flush with the start edge of the grid container
- **end** – aligns the grid to be flush with the end edge of the grid container
- **center** – aligns the grid in the center of the grid container
- **stretch** – resizes the grid items to allow the grid to fill the full width of the grid container
- **space-around** – places an even amount of space between each grid item, with half-sized spaces on the far ends
- **space-between** – places an even amount of space between each grid item, with no space at the far ends
- **space-evenly** – places an even amount of space between each grid item, including the far ends

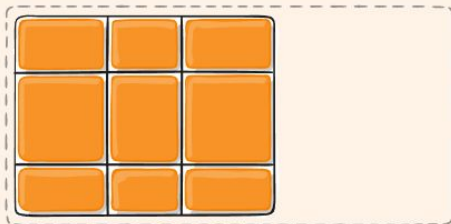
```
.container {  
  justify-content: start | end | center | stretch | space-around  
}
```



Examples:

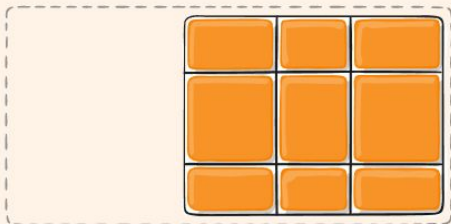
```
.container {  
  justify-content: start;  
}
```

grid container



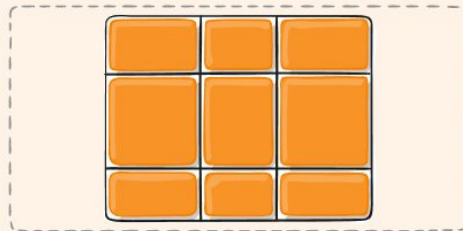
```
.container {  
  justify-content: end;  
}
```

grid container



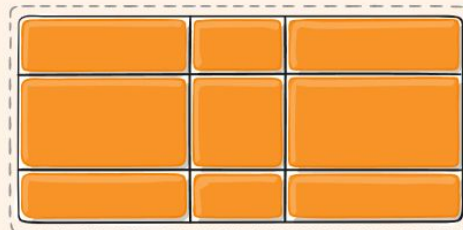
```
.container {  
  justify-content: center;  
}
```

grid container



```
.container {  
  justify-content: stretch;  
}
```

grid container



## 🔗 align-content

Sometimes the total size of your grid might be less than the size of its grid container. This could happen if all of your grid items are sized with non-flexible units like px. In this case you can set the alignment of the grid within the grid container. This property aligns the grid along the *block (column)* axis (as opposed to [justify-content](#) which aligns the grid along the *inline (row)* axis).





Values:

- **start** – aligns the grid to be flush with the start edge of the grid container
- **end** – aligns the grid to be flush with the end edge of the grid container
- **center** – aligns the grid in the center of the grid container
- **stretch** – resizes the grid items to allow the grid to fill the full height of the grid container
- **space-around** – places an even amount of space between each grid item, with half-sized spaces on the far ends
- **space-between** – places an even amount of space between each grid item, with no space at the far ends
- **space-evenly** – places an even amount of space between each grid item, including the far ends

```
.container {  
  align-content: start | end | center | stretch | space-around  
}
```

CSS

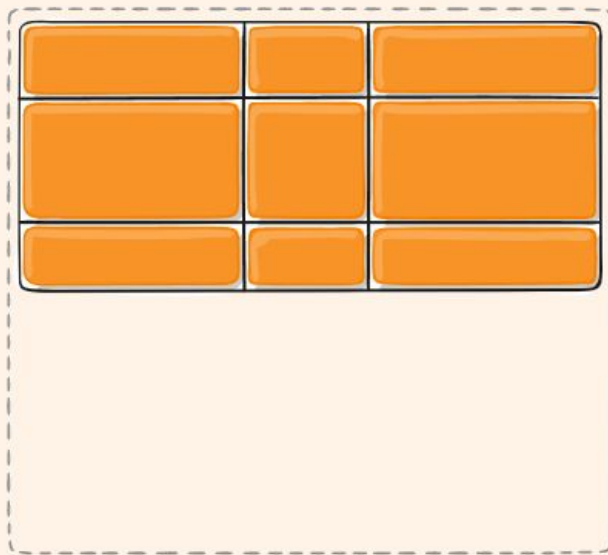


Examples:

```
.container {  
  align-content: start;  
}
```

CSS

grid container



Todas esas fueron propiedades para EL PADRE. Es igual que con flex, los hijos pueden tener sus propias propiedades también:

🔗 **grid-column-start**

**grid-column-end**

**grid-row-start**

**grid-row-end**

Determines a grid item's location within the grid by referring to specific grid lines. `grid-column-start`/`grid-row-start` is the line where the item begins, and `grid-column-end`/`grid-row-end` is the line where the item ends.

Values:

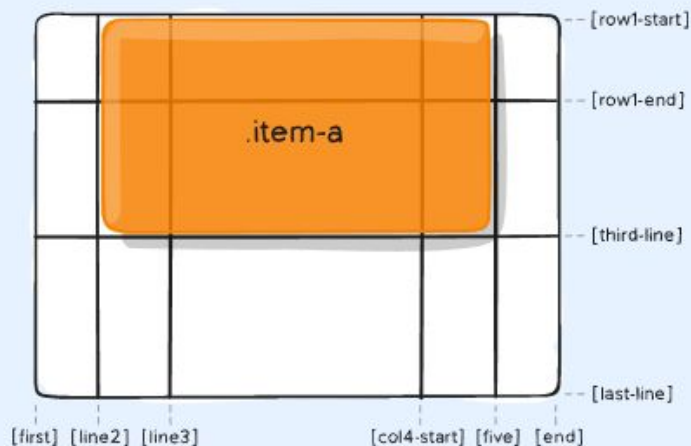
- **<line>** – can be a number to refer to a numbered grid line, or a name to refer to a named grid line
- **span <number>** – the item will span across the provided number of grid tracks
- **span <name>** – the item will span across until it hits the next line with the provided name
- **auto** – indicates auto-placement, an automatic span, or a default span of one



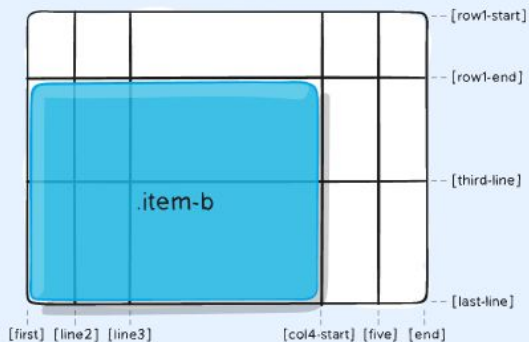
## Examples:

```
.item-a {  
  grid-column-start: 2;  
  grid-column-end: five;  
  grid-row-start: row1-start;  
  grid-row-end: 3;  
}
```

CSS



```
.item-b {  
  grid-column-start: 1;  
  grid-column-end: span col4-start;  
  grid-row-start: 2;  
  grid-row-end: span 2;  
}
```



If no `grid-column-end`/`grid-row-end` is declared, the item will span 1 track by default.

Items can overlap each other. You can use `z-index` to control their stacking order.



🔗 `grid-column`

`grid-row`

Shorthand for `grid-column-start` + `grid-column-end`,  
and `grid-row-start` + `grid-row-end`, respectively.

Values:

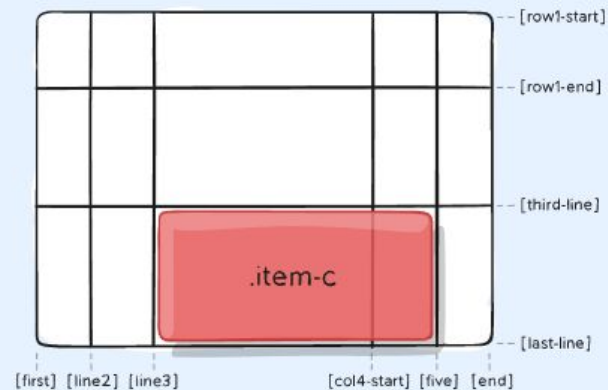
- `<start-line> / <end-line>` – each one accepts all the same values as the longhand version, including span

```
.item {  
  grid-column: <start-line> / <end-line> | <start-line> / span  
  grid-row: <start-line> / <end-line> | <start-line> / span <v  
}
```



Example:

```
.item-c {  
  grid-column: 3 / span 2;  
  grid-row: third-line / 4;  
}
```



If no end line value is declared, the item will span 1 track by default.



## grid-area

Gives an item a name so that it can be referenced by a template created with the [grid-template-areas](#) property. Alternatively, this property can be used as an even shorter shorthand for [grid-row-start](#) + [grid-column-start](#) + [grid-row-end](#) + [grid-column-end](#).

Values:

- **<name>** – a name of your choosing
- **<row-start> / <column-start> / <row-end> / <column-end>** – can be numbers or named lines

```
.item {  
  grid-area: <name> | <row-start> / <column-start> / <row-end>  
}
```





Examples:

As a way to assign a name to the item:

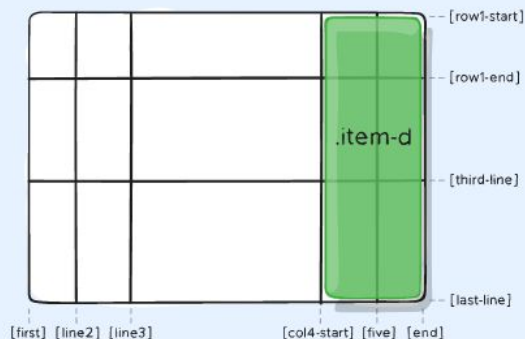
```
.item-d {  
  grid-area: header;  
}
```

CSS

As the short-shorthand for `grid-row-start` + `grid-column-start` + `grid-row-end` + `grid-column-end`:

```
.item-d {  
  grid-area: 1 / col4-start / last-line / 6;  
}
```

CSS



## 🔗 justify-self

Aligns a grid item inside a cell along the *inline* (row) axis (as opposed to [align-self](#) which aligns along the *block* (column) axis). This value applies to a grid item inside a single cell.

Values:

- **start** – aligns the grid item to be flush with the start edge of the cell
- **end** – aligns the grid item to be flush with the end edge of the cell
- **center** – aligns the grid item in the center of the cell
- **stretch** – fills the whole width of the cell (this is the default)

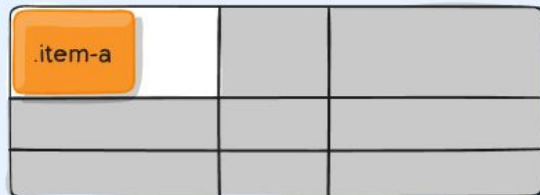
```
.item {  
  justify-self: start | end | center | stretch;  
}
```

CSS



## Examples:

```
.item-a {  
  justify-self: start;  
}
```



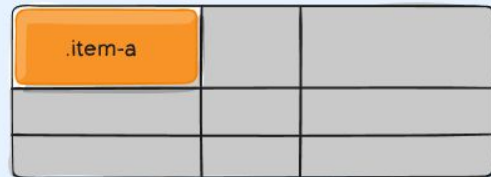
```
.item-a {  
  justify-self: end;  
}
```



```
.item-a {  
  justify-self: center;  
}
```



```
.item-a {  
  justify-self: stretch;  
}
```



To set alignment for *all* the items in a grid, this behavior can also be set on the grid container via the [justify-items](#) property.



## align-self

Aligns a grid item inside a cell along the *block (column)* axis (as opposed to [justify-self](#) which aligns along the *inline (row)* axis). This value applies to the content inside a single grid item.

Values:

- **start** – aligns the grid item to be flush with the start edge of the cell
- **end** – aligns the grid item to be flush with the end edge of the cell
- **center** – aligns the grid item in the center of the cell
- **stretch** – fills the whole height of the cell (this is the default)

```
.item {  
  align-self: start | end | center | stretch;  
}
```

CSS



## Examples:

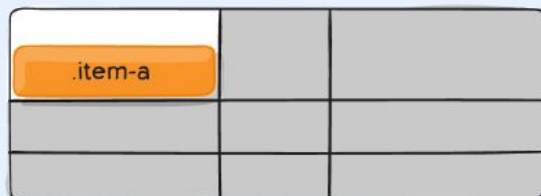
```
.item-a {  
  align-self: start;  
}
```

CSS



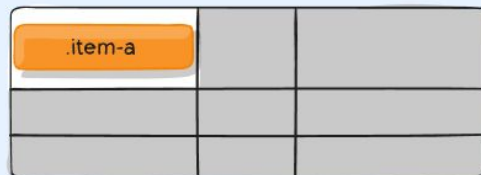
```
.item-a {  
  align-self: end;  
}
```

CSS



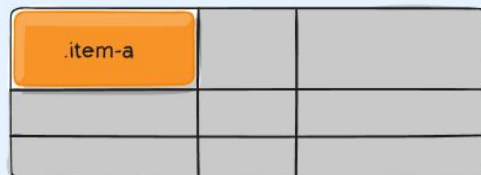
```
.item-a {  
  align-self: center;  
}
```

CSS



```
.item-a {  
  align-self: stretch;  
}
```

CSS



To align *all* the items in a grid, this behavior can also be set on the grid container via the [align-items](#) property.



## **place-self**

`place-self` sets both the `align-self` and `justify-self` properties in a single declaration.

Values:

- **auto** – The “default” alignment for the layout mode.
- **<align-self> / <justify-self>** – The first value sets `align-self`, the second value `justify-self`. If the second value is omitted, the first value is assigned to both properties.

Examples:



Examples:

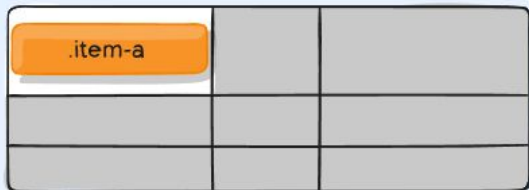
```
.item-a {  
  place-self: center;  
}
```

CSS



```
.item-a {  
  place-self: center stretch;  
}
```

CSS



**NEW THINGS?**



**I'M TERRIFIED OF THAT.**

[makeameme.org](http://makeameme.org)

