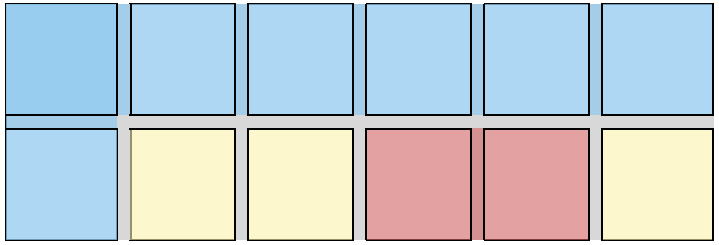
CSS Grid Layout cheatsheet

V1 - ene. 2019

{paradigma

conceptos básicos

Grid Gap | Grid Track (horizontal o vertical) | Grid Area | Grid Cell



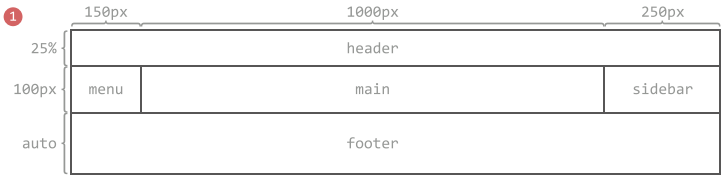
display // Determina que el contenedor va a ser un grid

```
.container {
  display: grid (organizado en bloque) | inline-grid (organizado en línea);
}
```

grid-template // Define el ancho/alto de las filas/columnas del grid

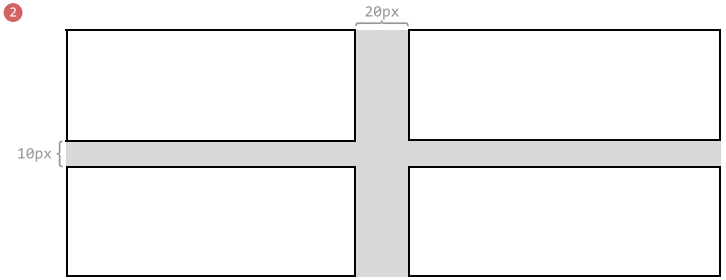
```
1 .container {
    grid-template-columns: 150px 1000px 250px;    /* columnas */
    grid-template-rows: 25% 100px auto;           /* filas */
    grid-template-areas: "header header header
                          menu main sidebar
                          footer footer footer";  /* áreas */
  }

  /* El valor ancho/alto se puede indicar con diferentes formatos */
  grid-template-columns: 25% 50% 25%;                 /* porcentaje */
  grid-template-rows: 1fr 3fr 1fr;                    /* tracks flexibles */
  grid-template-columns: repeat(3,200px);             /* 3 columnas de 200px */
  grid-template-rows: min-content max-content;        /* relativo al contenido */
  grid-template-columns: minmax(150px,1000px) 1fr;    /* rango mínimo y máximo */
```



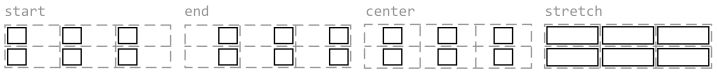
grid-gap // Define el tamaño del espacio entre las filas/columnas del grid

```
2 .container {
    grid-row-gap: 10px;       /* carril de las filas */
    grid-column-gap: 20px;    /* carril de las columnas */
    grid-gap: 10px 20px;      /* carril de filas y columnas */
  }
```

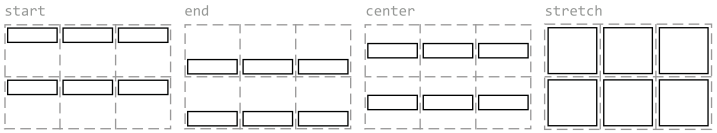


justify-items / align-items // Alinea o justifica las filas/columnas del grid

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



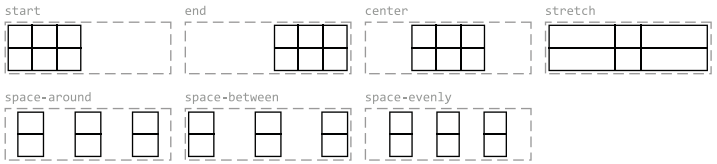

```
.container {
  align-items: start | end | center | stretch (default);
}
```



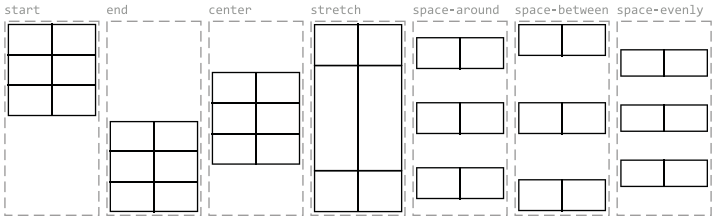
justify-content / align-content

// Alinea o justifica las filas/columnas del grid

```
.container {
  justify-content: start | end | center | stretch (default)
                   space-around | space-between | space-evenly;
}
```



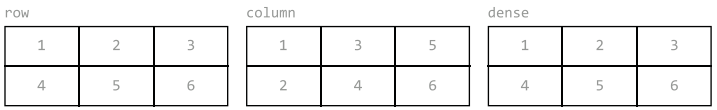

```
.container {
  align-content: start | end | center | stretch (default)
                 space-around | space-between | space-evenly;
}
```



grid-auto-flow

// Coloca automáticamente elementos que no están explícitamente ubicados

```
.container {
  grid-auto-flow: row | column | dense;
}
```



grid-row / grid-column / grid-column + grid-row

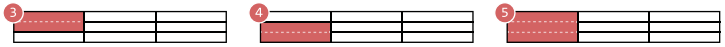
// Indica la ubicación basada en columnas/filas dentro del grid

```
/* Teniendo en cuenta un grid de 3 columnas y 3 filas */

3 .item-1 {
    /* columna 1 - filas 1 y 2 */
    grid-row-start: span 2;
  }

4 .item-2 {
    /* columna 1 - filas 2 y 3 */
    grid-row-start: 2;
    grid-row-end: 4;
  }

5 .item-3 {
    /* columna 1 - filas 1, 2 y 3 */
    grid-row: 1/4   |   1 / span 3;
  }
```

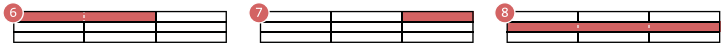



```
/* Teniendo en cuenta un grid de 3 columnas y 3 filas */

6 .item-1 {
    /* columnas 1 y 2 - fila 1 */
    grid-column-start: span 2;
  }

7 .item-2 {
    /* columna 3 - fila 1 */
    grid-column-start: 3;
    grid-column-end: 4;
  }

8 .item-3 {
    /* columnas 1, 2 y 3 - fila 1 */
    grid-row: 2 / 4   |   2 / span 3;
  }
```



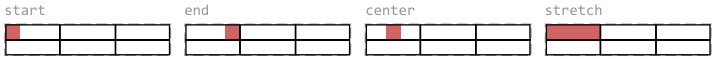

```
/* Teniendo en cuenta un grid de 3 columnas y 3 filas */

.item {
  /* columnas 1, 2 y 3 - filas 2 y 3 */
  .grid-column: 1 / span 3;
  .grid-row: 2 / span 2;
}
```

justify-self / align-self

// Alinea vertical u horizontalmente el contenido de una cuadrícula

```
.item-a {
  justify-self: start | end | center | stretch (default);
}
```




```
.item-a {
  align-self: start | end | center | stretch (default);
}
```

Más información y comentarios: paradig.ma/grid-flex

Referencias: Malven: http://grid.malven.co | codrops: https://tympanus.net/codrops/css_reference/grid | css-tricks: https://css-tricks.com/snippets/css/complete-guide-grid

CSS Flexbox Layout cheatsheet

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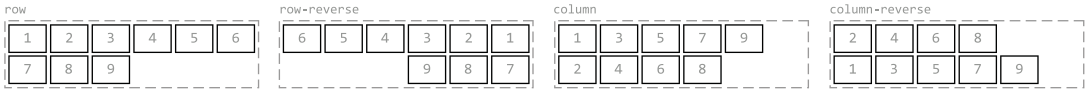
display // Define un contenedor flexible, permitiendo alinear sus hijos directos de la forma que determinemos

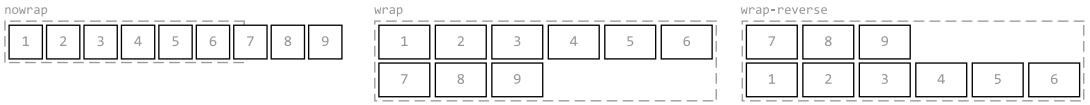
```
.container {
  display:  flex | inline-flex;
}
```

flex-direction / flex-wrap

```
.container{
  /* Dirección de los  items en fila o columna */
  flex-direction: row | row-reverse | column | column-reverse;
}
```




```
.container{
  /* Determina si los items se ajustan en una línea o no */
  flex-wrap: nowrap | wrap | wrap-reverse;
}
```

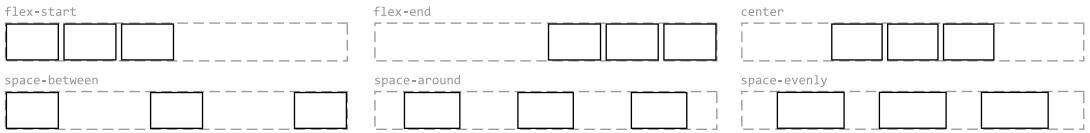


flex-flow (flex-direction + flex-wrap)

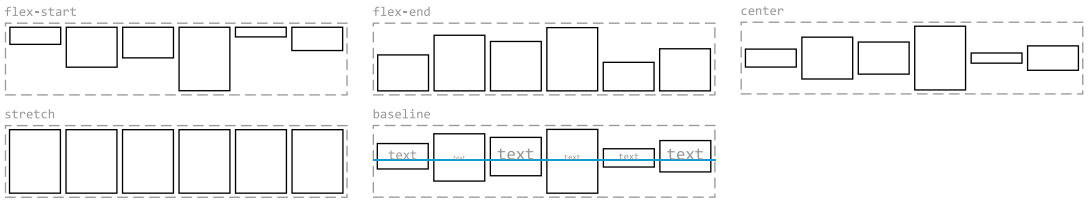
```
.container {
  /* Shothand */
  flex-flow: row (flex-direction) wrap (flex-wrap);
}
```

justify-content / align-items // Alinea los items en sentido horizontal y vertical

```
.container {
  /* Alineación horizontal de los item */
  justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly;
}
```

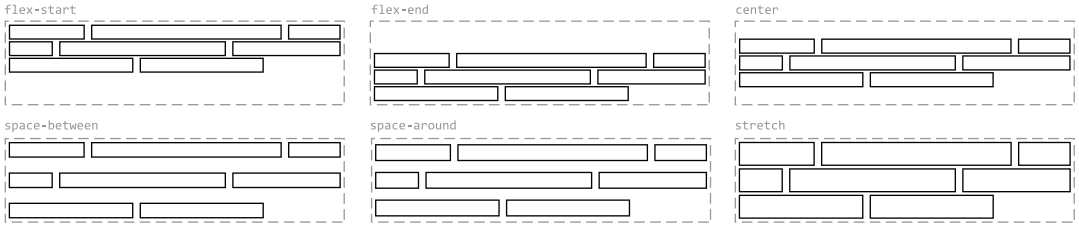



```
.container {
  /* Alineación vertical de los items */
  align-items: flex-start | flex-end | center | stretch | baseline;
}
```



align-content // Alinea los items en sentido vertical y horizontal

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



flex-grow / flex-shrink / flex-basis

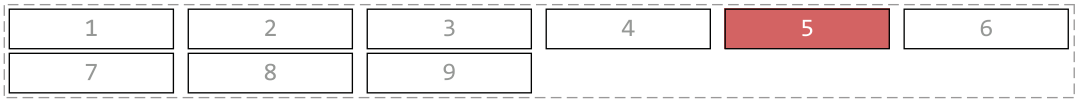
```
.item:nth-child(4) {
  /* Define en qué proporción crece un item */
  flex-grow: 3 (número);    /* por defecto es 0 */
}
```


```
.item {
  /* Define la capacidad de un objeto flexible para contraerse si es necesario */
  flex-shrink: 2 (número);   /* por defecto es 1 */

  /* Define el tamaño de un item antes de distribuir el espacio restante */
  flex-basis: auto | 10% | 5rem;
}
```

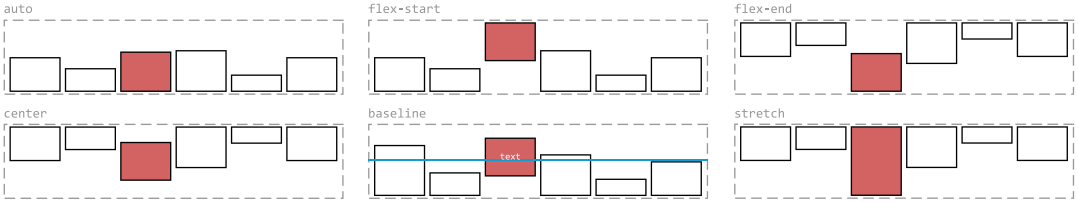
order

```
.item {
  /* Orden de los items, permitiendo colocar un elemento en un orden diferente al que le corresponde en el código */
  order: 5 (número); /* por defecto es 0 */
}
```



align-self // Permite alinear de forma individual un elemento

```
.item:nth-child(3) {
  align-self: auto | flex-start | flex-end | center | baseline | stretch;
}
```



Referencias: css-tricks: https://css-tricks.com/snippets/css/a-guide-to-flexbox | https://demos.scotch.io/visual-guide-to-css3-flexbox-flexbox-playground/demos | https://loading.io/flexbox