INTRODUCCIÓN A CSS

GRID LAYOUT

UF1- Programació amb XML

M04-Llenguatges de marques

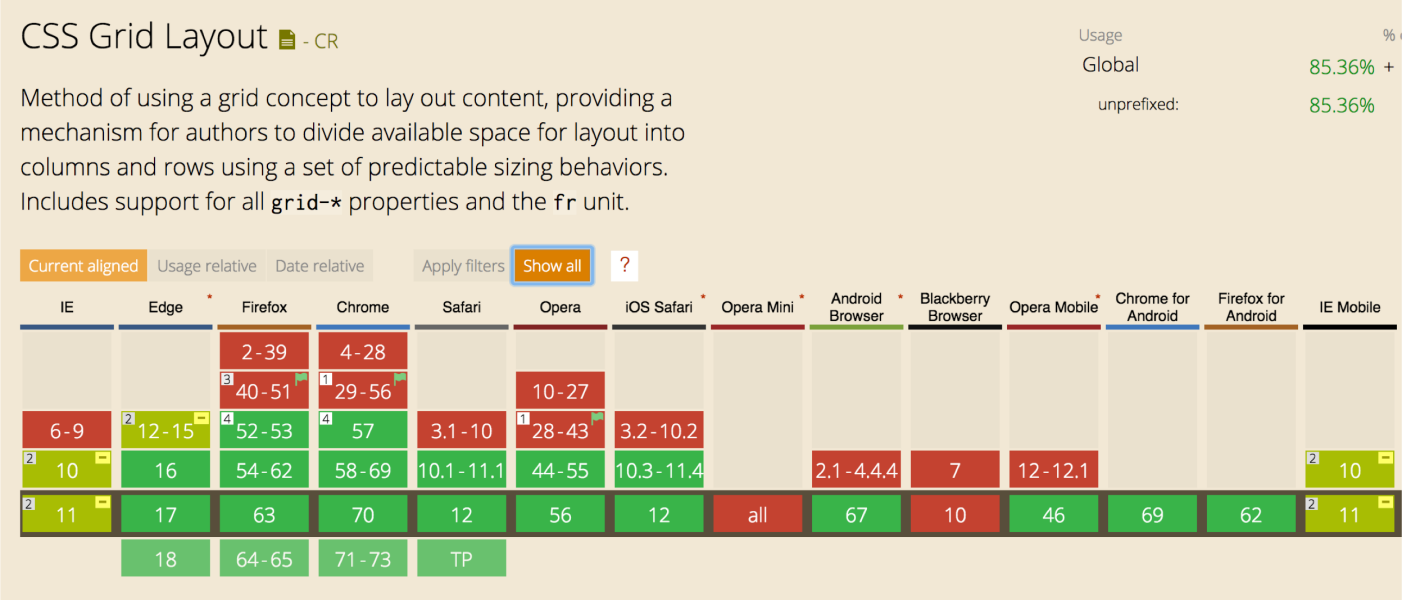
CFGS DAW

Professor: Marc Callejón

ETP Xavier

Grid Layout

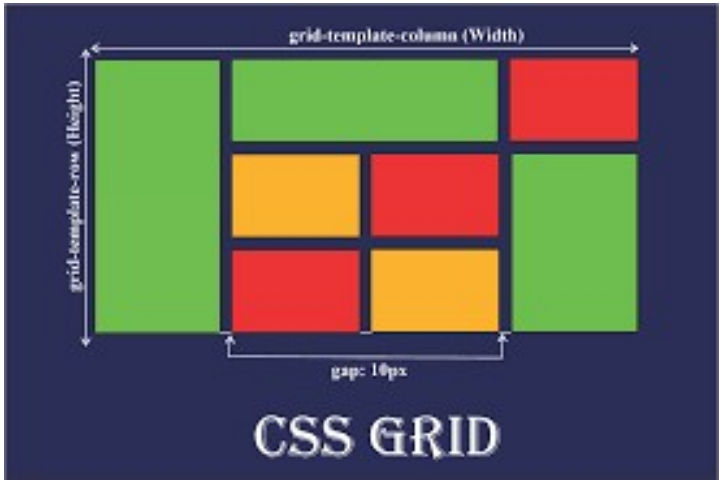
- Soporte mayoritario en todos los navegadores



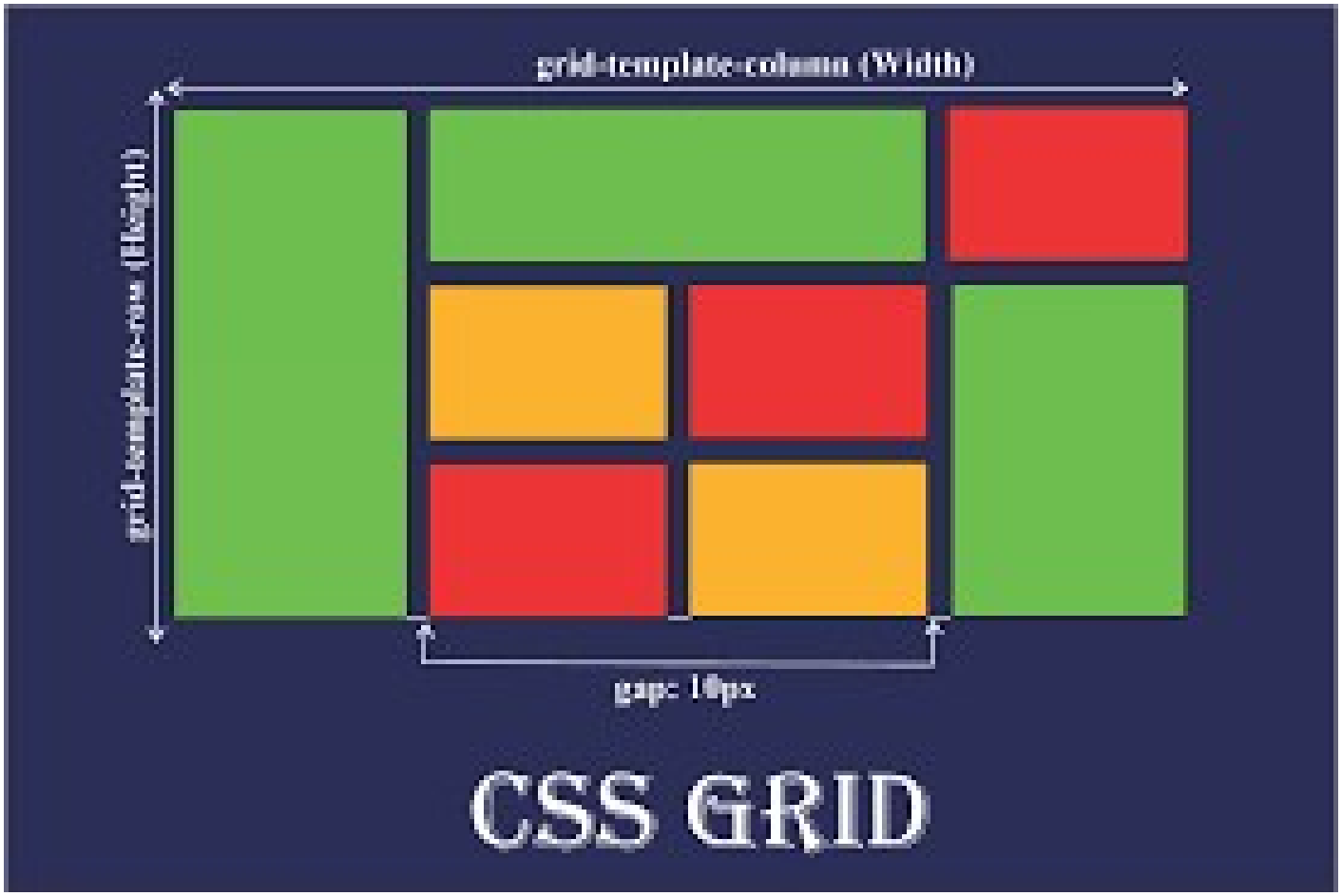
Grid Layout

- Módulo de CSS3 permite definir un grid (parrilla) de dos dimensiones en el layout.

- Permite definir el comportamiento del eje de las x y de la y



Grid Layout



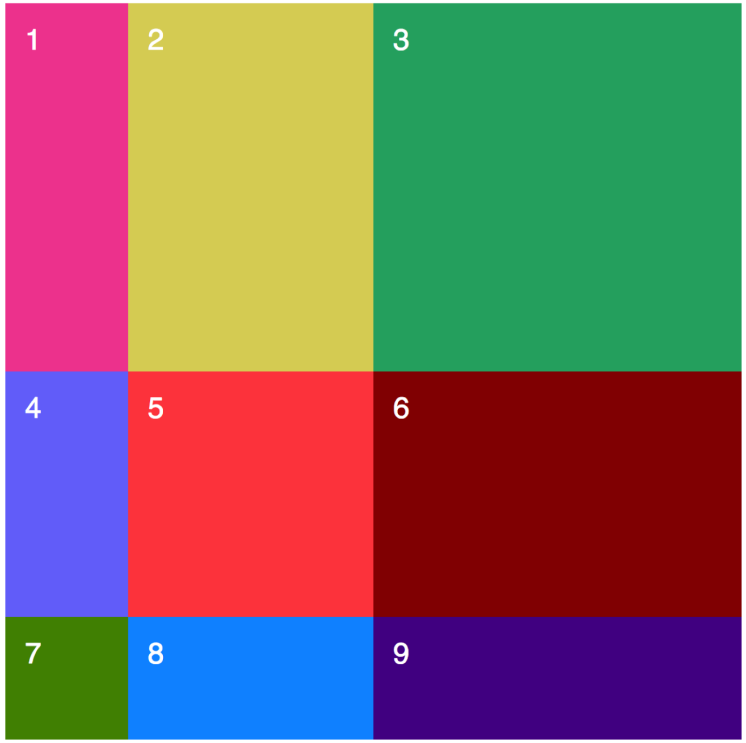
Grid Layout - Estrucutura HTML

```
<div class="container">

        <div class="item1">1</div>
        <div class="item2">2</div>
        <div class="item3">3</div>
        <div class="item4">4</div>
        <div class="item5">5</div>
        <div class="item2">6</div>
        <div class="item3">7</div>
        <div class="item4">8</div>
        <div class="item5">9</div>

</div>
```

Grid Layout

- Grid-template-<columns|rows>

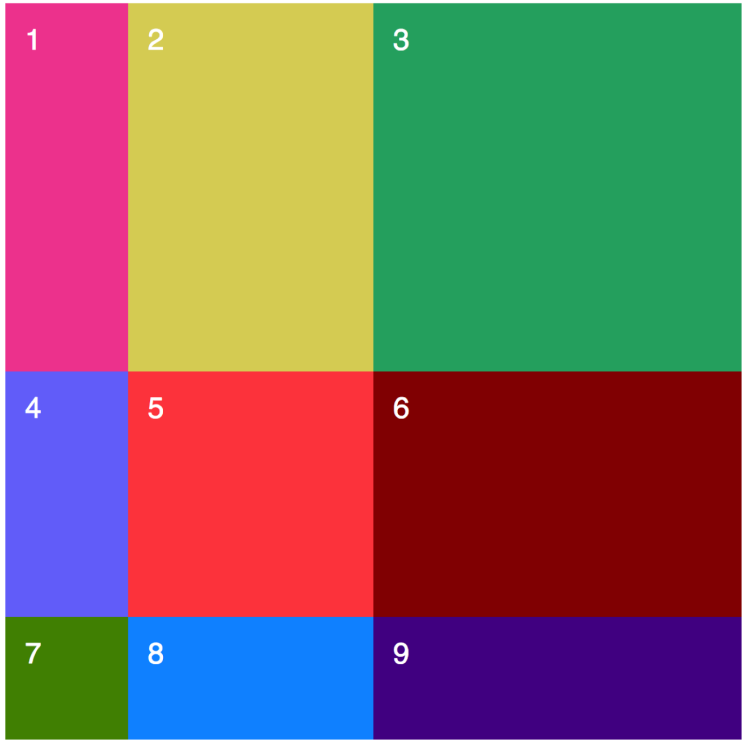
```
.container{
    display: grid;
    grid-template-columns: 100px 200px 300px;
    grid-template-rows: 300px 200px 100px;
}
```



Grid Layout

- Grid-template

```
.container{
    display: grid;
    grid-template: 300px 200px 100px / 100px 200px 300px;
}
```

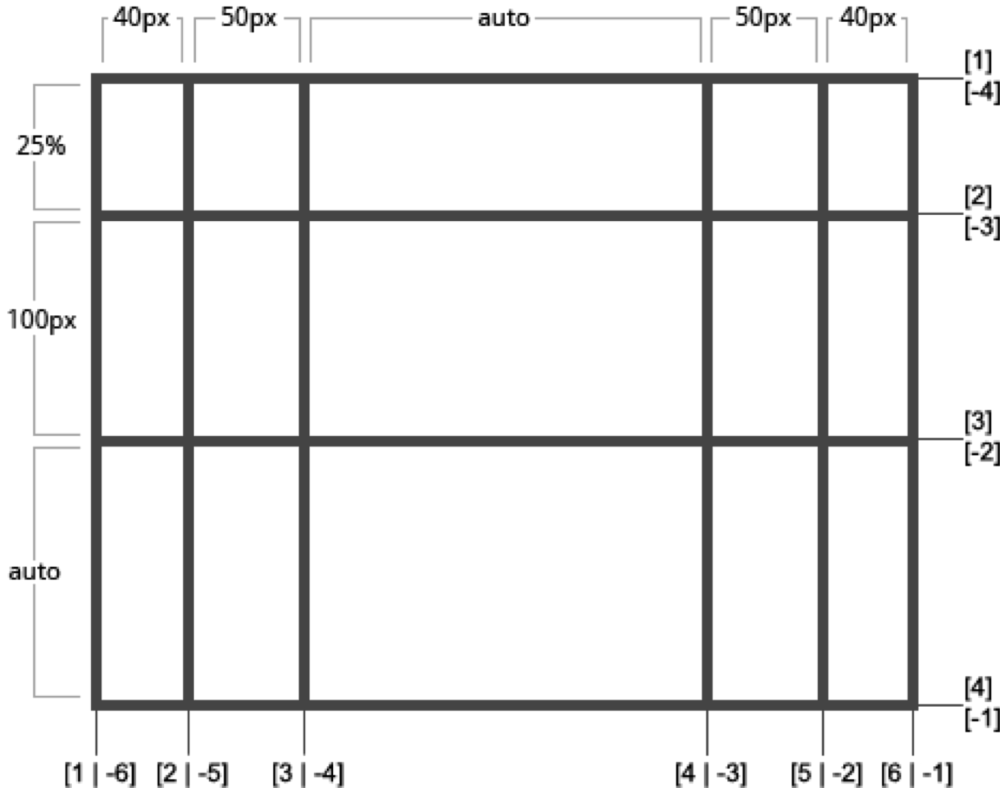


Fraction Unit FR

```
.container{
    display: grid;
    grid-template-columns: 1fr 3fr 1fr;
    grid-template-rows: 3fr 1fr 1fr;
}
```

Grid Layout

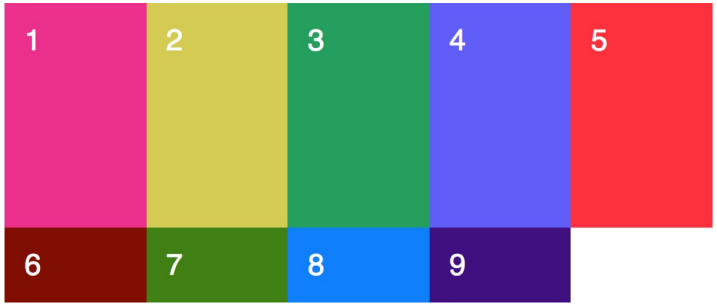
- Nomenclatura filas y columnas (default)



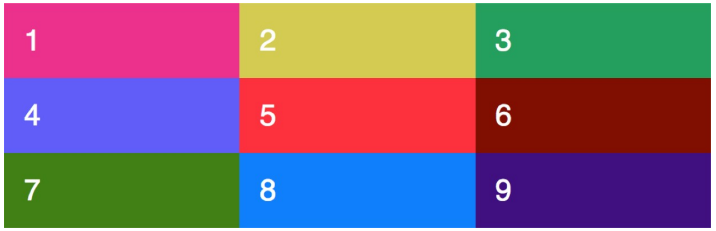
Grid Layout

- Repeat

```
.container{
    display: grid;
    grid-template-columns: repeat(5, 1fr);
    grid-template-rows: 3fr 1fr 1fr;
}
```




```
.container{
    display: grid;
    grid-template-columns: repeat(3, 1fr);
    grid-template-rows: repeat(3, 1fr);
}
```



Grid Layout

- Repeat auto-fit: estira los elementos para que ocupen el ancho disponible

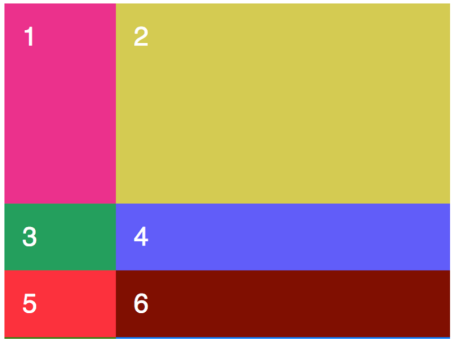
```
.container{
    display: grid;
    grid-template-columns: repeat(auto-fit,minmax(100px, 1fr));
    grid-template-rows: 3fr 1fr 1fr;
}
```

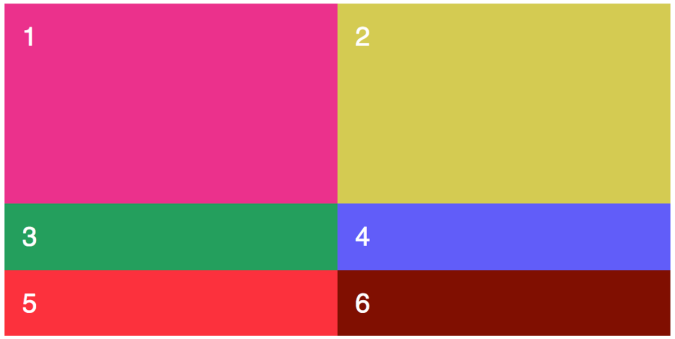
Lo que nos dice esta norma viene a ser algo tipo "pinta tantas columnas como puedas que vayan de 100px hasta 1fr (el máximo espacio que esté disponible)"

Grid Layout

- MinMax

```
.container{
    display: grid;
    grid-template-columns: minmax(100px, 300px) 300px;
    grid-template-rows: 3fr 1fr 1fr;
}
```

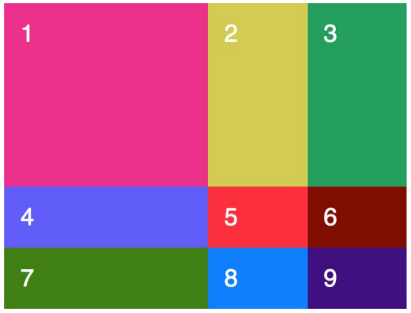


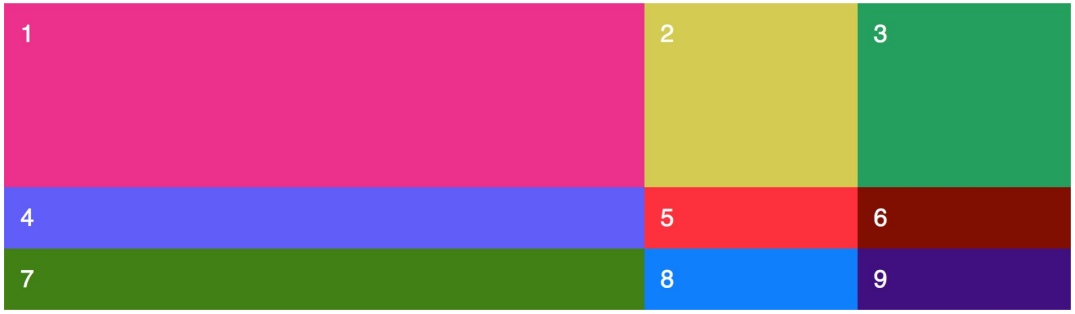


Grid Layout

- MinMax

```
.container{
    display: grid;
    grid-template-columns: minmax(200px, 60%) repeat(2,1fr);
    grid-template-rows: 3fr 1fr 1fr;
}
```





Grid Layout

- Grid-column-gap / Grid-row-gap

```css
.container{
    display: grid;
    grid-template-columns: repeat(3, 1fr);
    grid-template-rows: 3fr 1fr 1fr;
    grid-column-gap: 1.5rem;
    grid-row-gap: .5rem;
}
```

Grid Layout

- Grid-template-areas

```
.container{
 display: grid;

  grid-template-areas:
    'header header header header header header'
    'menu main main main right right'
    'menu footer footer footer footer footer';
  gap: 10px;

}

.container > div{
  border: solid 1px red;
}

.item1{background: red; grid-area: header; }
.item2{background: blue; grid-area: menu; }
.item3{background: yellow; grid-area: main;}
.item4{background: green; grid-area: right;}
.item5{background: grey; grid-area: footer;}
```