

CSS - Grid

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Grid Container

display: grid;

```
<div class="grid-container">
```

```
<div>1</div>
```

```
<div>2</div>
```

```
<div>3</div>
```

```
<div>4</div>
```

```
<div>5</div>
```

```
</div>
```

Formatação do container e das DIVs para facilitar a visualização.
Nos próximos slides estes comandos serão omitidos.

```
<style>
```

```
.grid-container {
```

```
display: grid;
```

```
background-color: yellowgreen;
```

```
}
```

```
.grid-container>div {
```

```
background-color: gray;
```

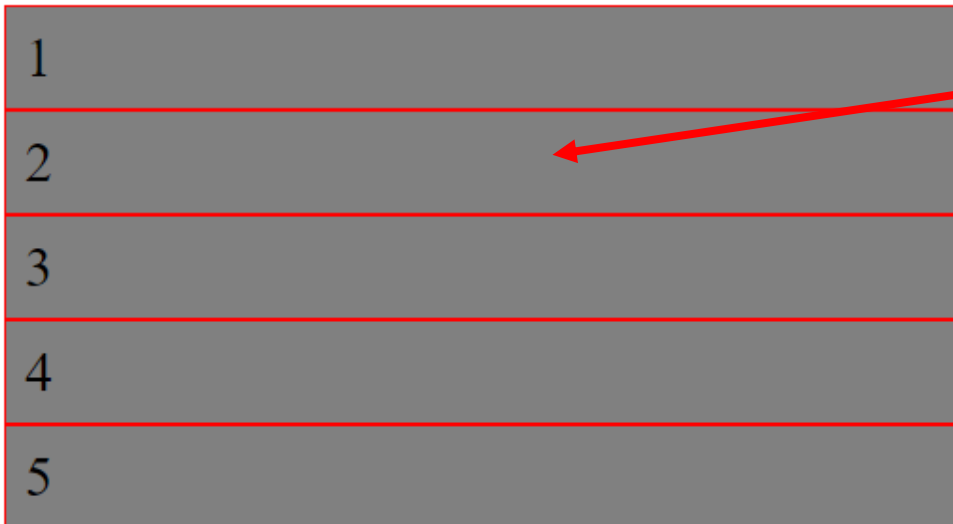
```
border: 1px solid red;
```

```
padding: 10px;
```

```
font-size: 30px;
```

```
}
```

```
</style>
```



A cor de fundo está totalmente coberta pelo grid, irá aparecer depois com outros comandos.

grid-template-columns: grid-template-rows:

```
.grid-container {  
  display: grid;  
  grid-template-columns: auto auto auto;  
  grid-template-columns: 70px 140px auto 70px;  
  grid-template-rows: 100px 200px;  
  grid-template-columns: 1fr 2fr 1fr;  
  grid-template-rows: 1fr 2fr;  
}
```

fr = fração

Uso de várias templates somente para uso didático do slide. Na prática somente o último de cada tipo será aplicado.

1	2	3
4	5	

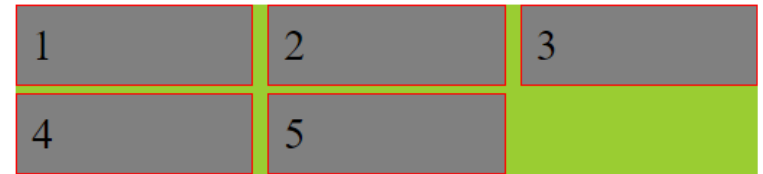
1	2	3	4
5			

1	2	3
4	5	

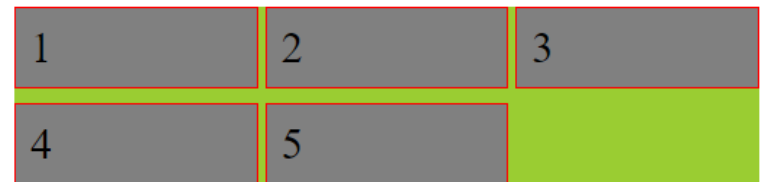
column-gap: row-gap: gap:

```
. grid-container {  
  display: grid;  
  grid-template-columns: auto auto auto;  
  column-gap: 10px;  
  row-gap: 5px;  
  gap: 10px 5px;  
  gap: 15px;  
}
```

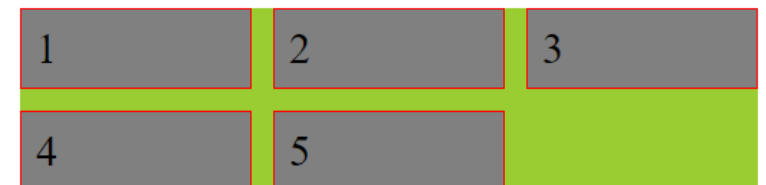
Uso de vários gaps somente para uso didático do slide. Na prática somente o último será aplicado.



gap = lacuna (espaçamento entre o grid)



row-gap column-gap

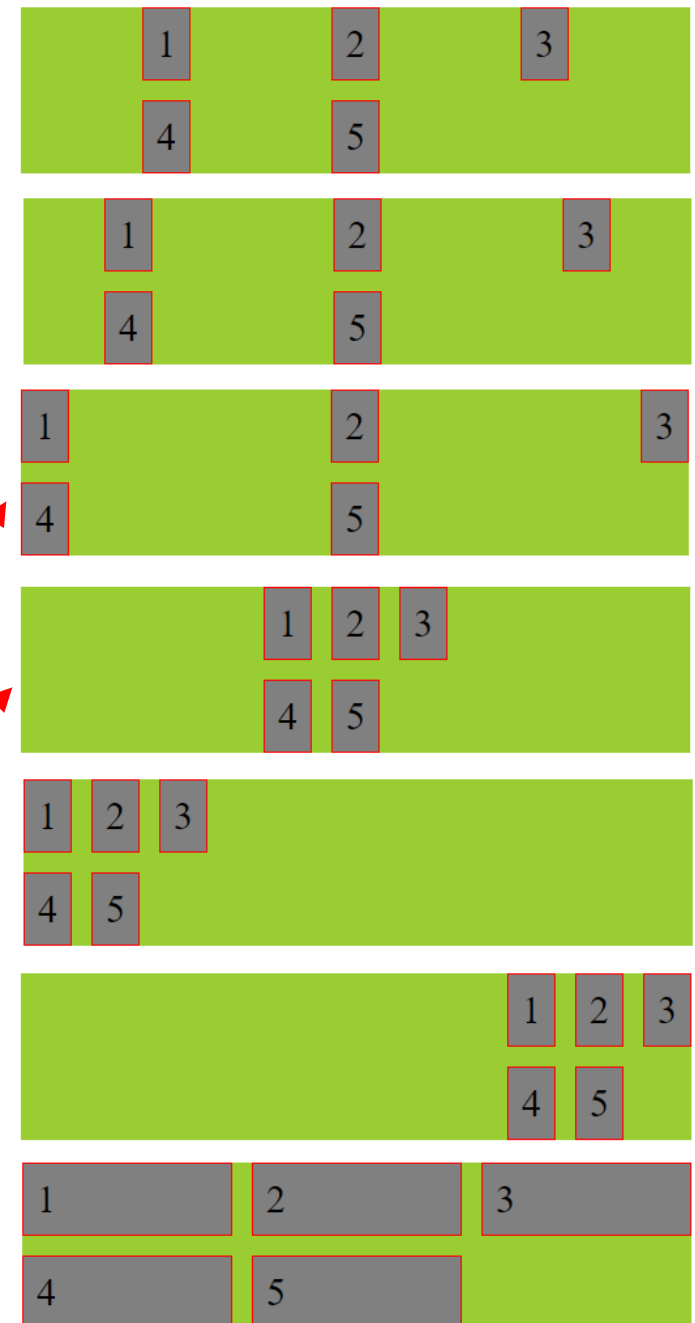


Valor utilizado para
linha e coluna

justify-content:

```
.grid-container {  
  display: grid;  
  grid-template-columns: auto auto auto;  
  gap: 15px;  
  justify-content: space-evenly;  
  justify-content: space-around;  
  justify-content: space-between;  
  justify-content: center;  
  justify-content: start;  
  justify-content: end;  
  justify-content: stretch;  
}
```

Uso de vários justify-content somente para uso didático do slide. Na prática somente o último será aplicado.



align-content:

```
.grid-container {  
  display: grid;  
  grid-template-columns: auto auto auto;  
  gap: 0px;  
  justify-content: stretch;  
  height: 150px;  
  align-content: center;  
  align-content: space-evenly;  
  align-content: space-around;  
  align-content: space-between;  
  align-content: start;  
  align-content: end;  
  align-content: stretch;  
}
```

Uso de vários align-content somente para uso didático do slide. Na prática somente o último será aplicado.

1	2	3
4	5	

1	2	3
4	5	

espaço
uniforme

1	2	3
4	5	

1	2	3
4	5	

1	2	3
4	5	

1	2	3
4	5	

1	2	3
4	5	

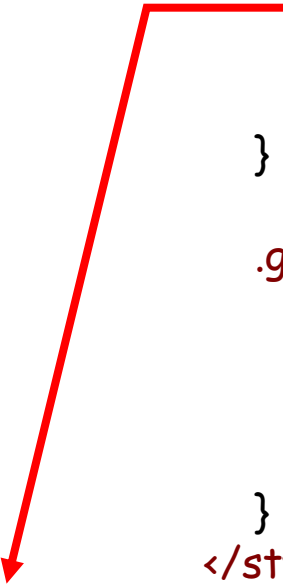
Grid Item

HTML e CSS base

```
<div class="grid-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="item6">6</div>
  <div class="item7">7</div>
  <div class="item8">8</div>
  <div class="item9">9</div>
  <div class="item10">10</div>
</div>
```

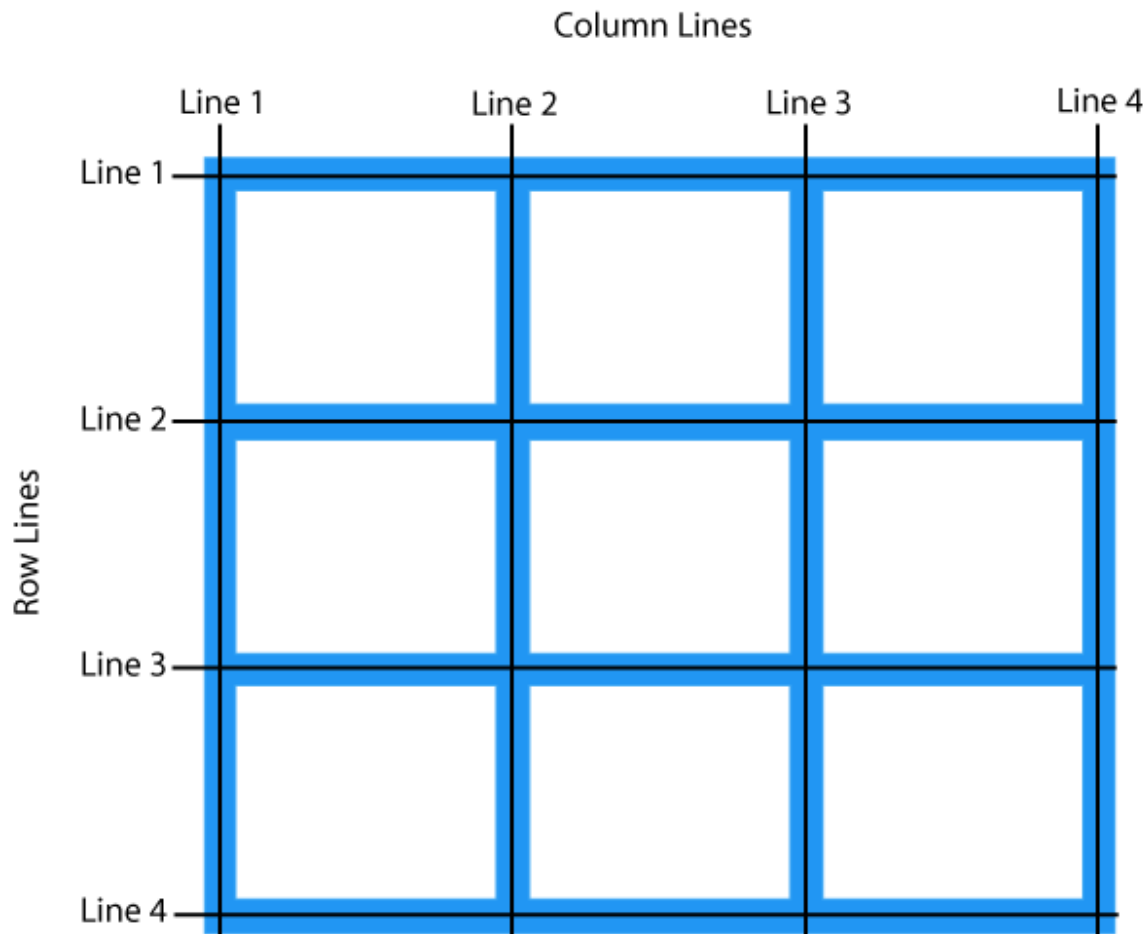
```
<style>
  .grid-container {
    display: grid;
    background-color: yellowgreen;
    grid-template-columns: repeat(5, 1fr);
    gap: 5px;
  }

  .grid-container>div {
    background-color: gray;
    border: 1px solid red;
    padding: 10px;
    font-size: 30px;
  }
</style>
```



1	2	3	4	5
6	7	8	9	10

Grid Item – Linhas para inclusão dos itens



Grid Item

Altera os itens individuais

`.item1 {`

`grid-column-start: 1;`
`grid-column-end: 3;`
`grid-row-start: 1;`
`grid-row-end: 3;`

`grid-column: 1 / 4;`
`grid-row: 1 / 3;`

`grid-column: 1 / span 2;`
`grid-row: 1 / span 3;`

`grid-area: 1 / 3 / 3 / 6;`
`grid-area: 2 / 2 / span 2 / span 3;`

`}`

grid-row-start / grid-column-start / grid-row-end / grid-column-end

1		2	3	4
		5	6	7
8	9	10		

1			2	3
			4	5
6	7	8	9	10

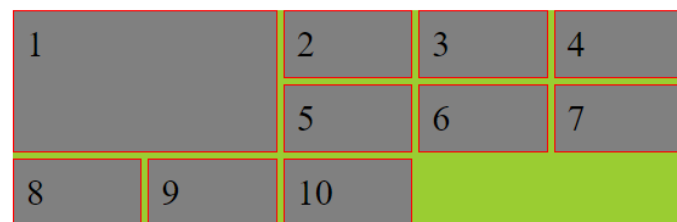
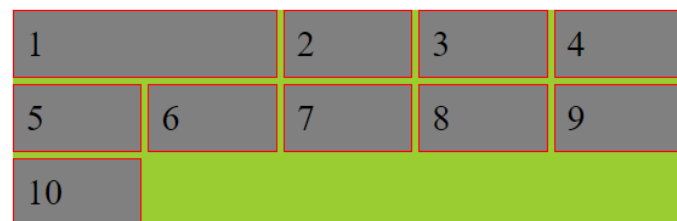
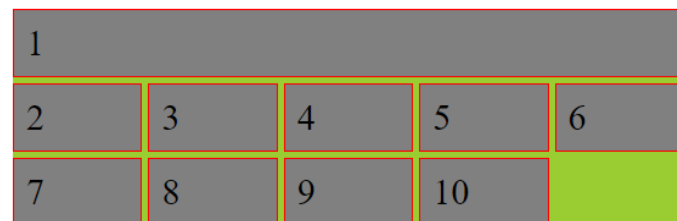
1		2	3	4
		5	6	7
		8	9	10

2	3	1		
4	5			
6	7	8	9	10

2	3	4	5	6
7	1			8
9				10

Nomeando itens da grade

```
.grid-container {  
  display: grid;  
  grid-template-columns: repeat(5, 1fr);  
  gap: 5px;  
  grid-template-areas: 'area1 area1 area1 area1 area1';  
  grid-template-areas: 'area1 area1 . . .';  
  grid-template-areas:   
    'area1 area1 . . .'  
    'area1 area1 . . .';  
}  
  
.item1 {  
  grid-area: area1;  
}
```



Uso de vários grid-template-areas
somente para uso didático do slide. Na
prática somente o último será aplicado.

Alinhando itens

```
.grid-container {  
  display: grid;  
  grid-template-columns: repeat(5, 1fr);  
  gap: 5px;  
  grid-template-areas:  
    'area1 area1 . . .'  
    'area1 area1 . . .';  
}
```

```
.item1 {  
  grid-area: area1;  
  justify-self: center;  
  align-self: center;  
}
```

