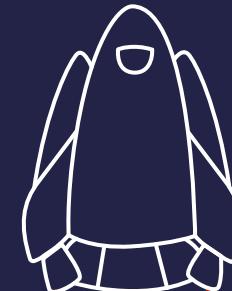
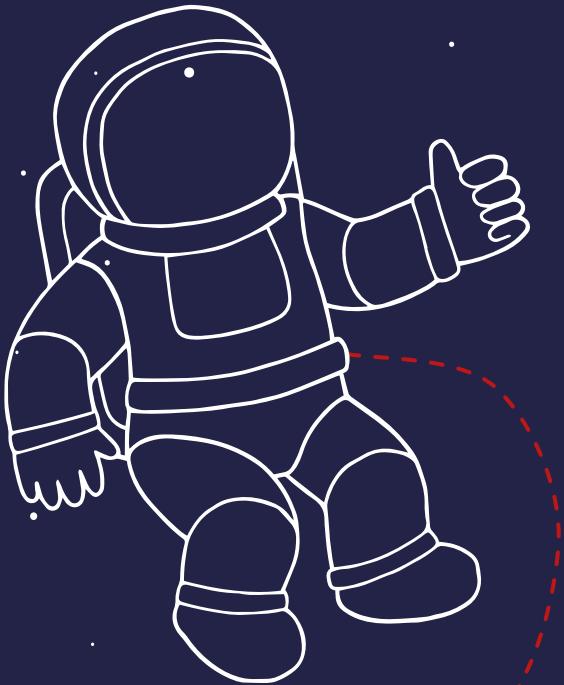




Programa académico **CAMPUS**

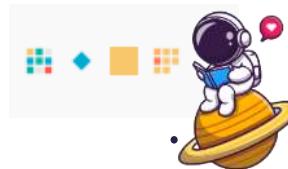
**Ciclo 2:
FlexBox**



CSS



CSS the Skin



Flex



- **Flex (también llamado flexbox)** es un sistema de **elementos flexibles** que llega con la idea de olvidar anteriores mecanismos y acostumbrarnos a una mecánica más potente, limpia y personalizable, en la que los elementos HTML se adaptan y colocan automáticamente y es más fácil personalizar los diseños de una página web



CSS the Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

the

Sidi

css

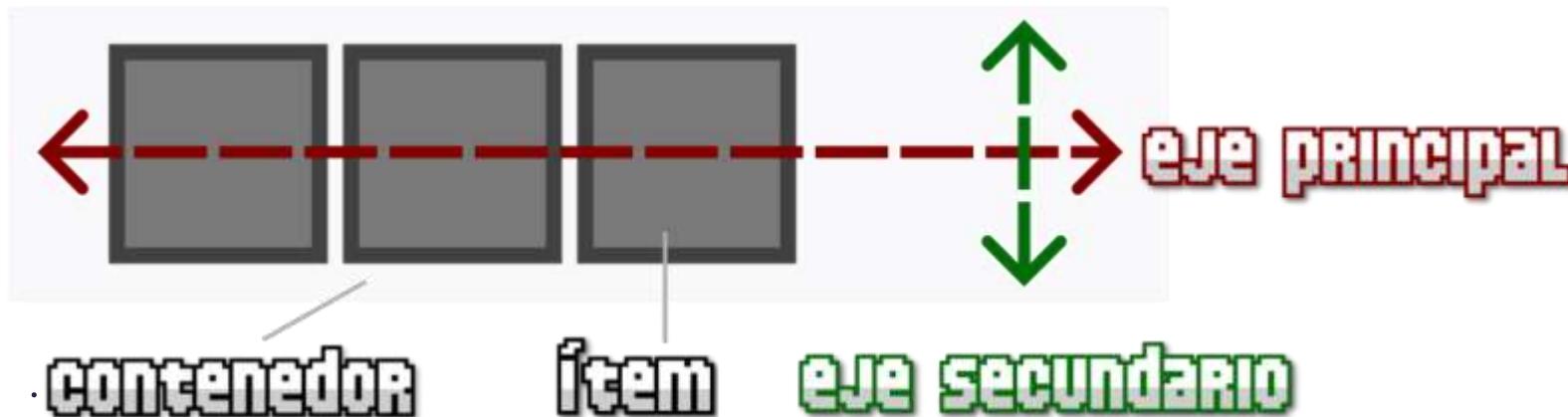
the

Sidi

css

the

Flex - Conceptos



CSS

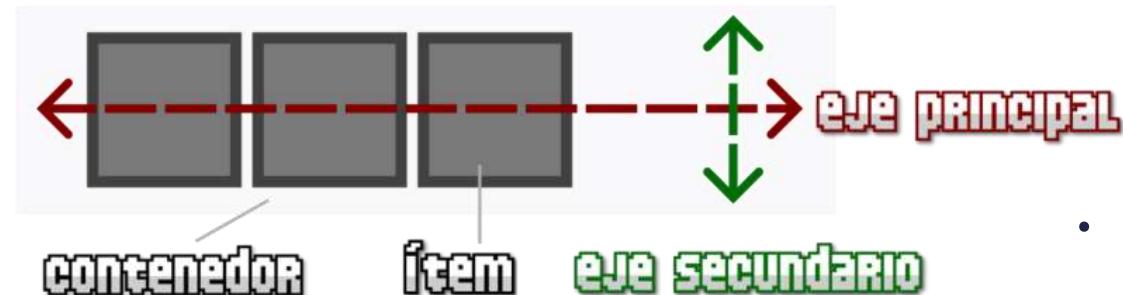


CSS the Sайдн



Flex - Conceptos

- **.Contenedor:** Es el elemento padre que tendrá en su interior cada uno de los ítems flexibles.
- Observa que al contrario que muchas otras estructuras CSS, por norma general, en Flex establecemos las propiedades al elemento padre.



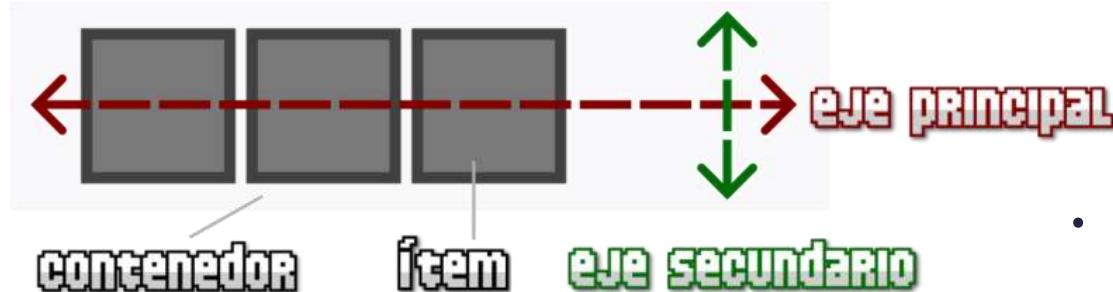
CSS

the Siden



Flex - Conceptos

- **Eje principal:** Los contenedores flexibles tendrán una orientación principal específica. Por defecto, el eje principal del contenedor flex es en **horizontal (en fila)**.



CSS



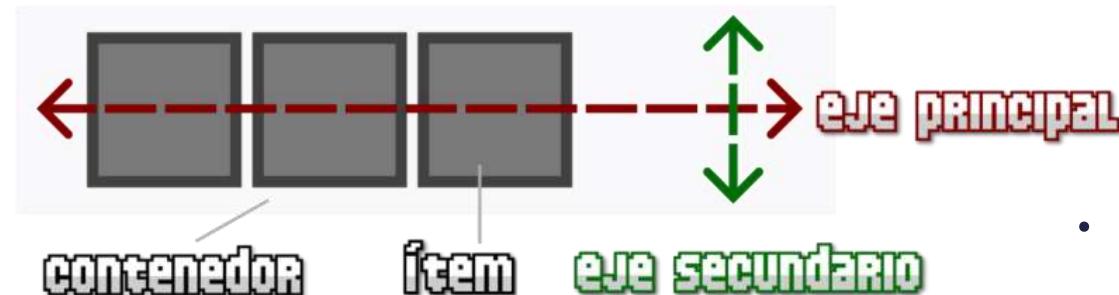
the Sideny





Flex - Conceptos

- **Eje secundario:** De la misma forma, los contenedores flexibles tendrán una orientación secundaria, perpendicular a la principal. Si la principal es en horizontal, la secundaria será en **vertical (y viceversa)**.



css



CSS the Side

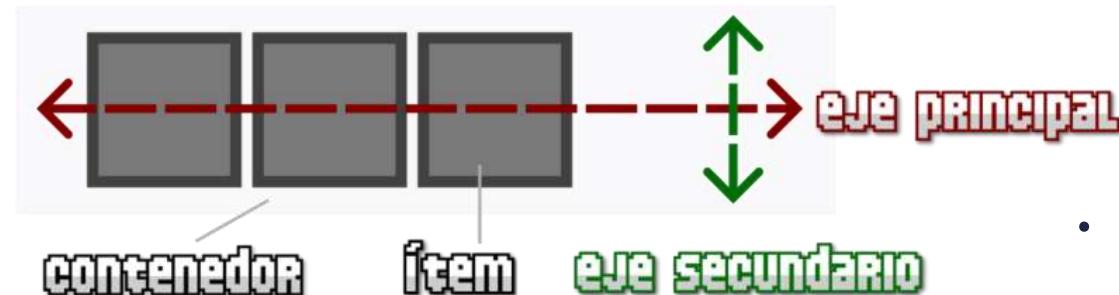


ME

Flex - Conceptos



- **Ítem:** Cada uno de los **hijos** que tendrá el contenedor en su interior.



CSS the Sidekick



Flex – HTML Cajas



```
<h1>Aprendiendo Flexbox</h1>

<section class="contenedor">
    <div class="item">Item 1</div>
    <div class="item">Item 2</div>
    <div class="item">Item 3</div>
    <div class="item">Item 4</div>
</section>
```

css



CSS the Simple



Flex - CSS

```
body {  
    background-color: #beige;  
}  
  
.item {  
    border: 1px solid #rgb(20, 69, 69);  
    background-color: #white;  
    color: #black;  
    font-family: 'Courier New',  
    Courier, monospace;  
    font-weight: bold;  
    width: 120px;  
    height: 120px;  
    line-height: 120px;  
    text-align: center;  
    margin: 5px;  
}
```



Aprendiendo Flexbox

Item 1

Item 2

Item 3

Item 4



CSS



CSS the Siden

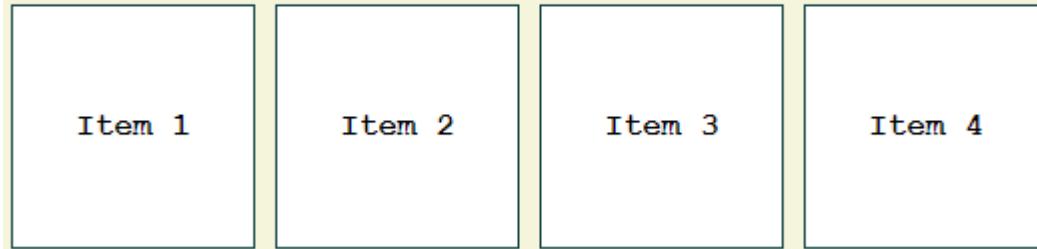


Flex – display:flex

```
.contenedor {  
    display: flex;  
}
```



Aprendiendo Flexbox



CSS



CSS the Side



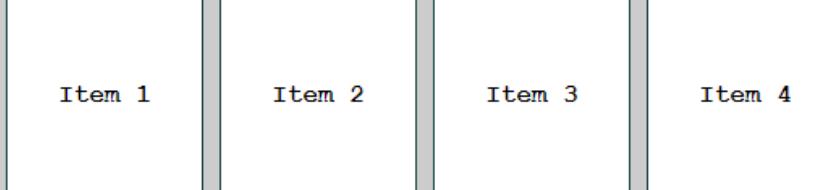


Flex – Enmarcando el Flex

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
}
```

CSS

Aprendiendo Flexbox



CSS the Sайди



Flex – flex-direction

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    flex-direction: column;  
}
```



Aprendiendo Flexbox



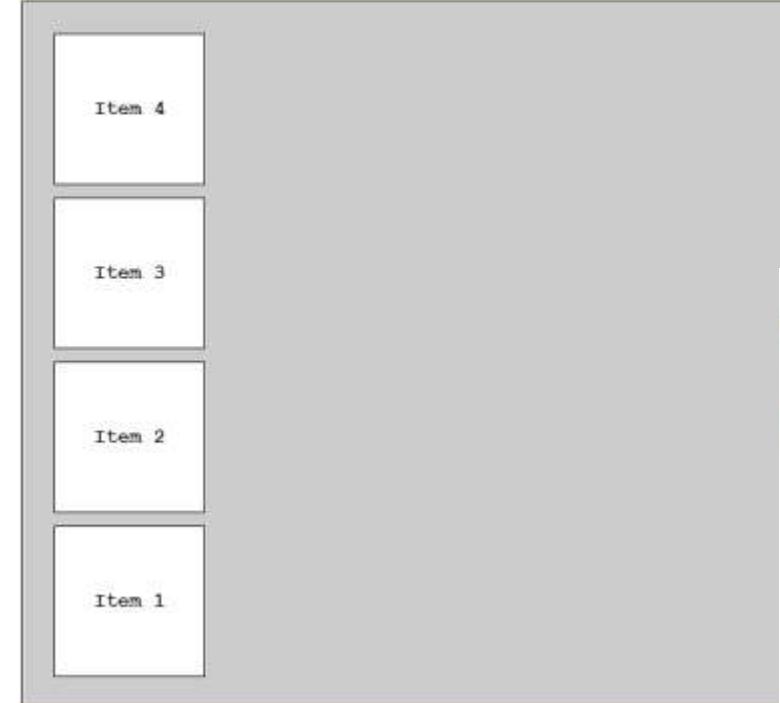
CSS the Sidh



Flex – flex-direction

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    flex-direction: column-reverse;  
}
```

Aprendiendo Flexbox



CSS



CSS the SphinX



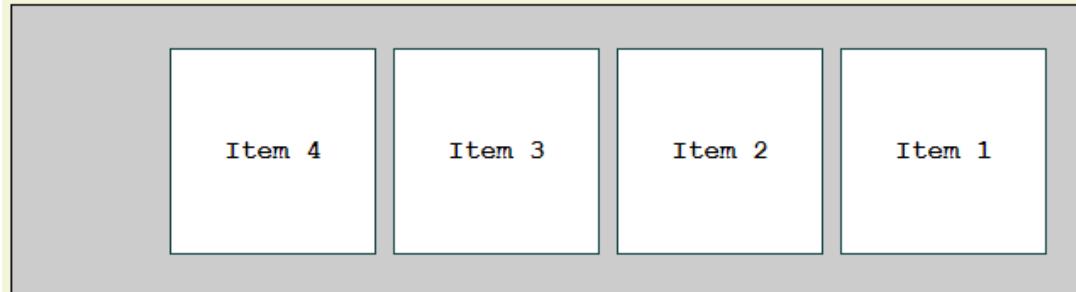


Flex – flex-direction

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    flex-direction: row-reverse;  
}
```

CSS

Aprendiendo Flexbox



CSS the Sайди





Flex – flex-direction – agregando más cajas

```
<section class="contenedor">
  <div class="item">Item 1</div>
  <div class="item">Item 2</div>
  <div class="item">Item 3</div>
  <div class="item">Item 4</div>

  <div class="item">Item 1</div>
  <div class="item">Item 2</div>
  <div class="item">Item 3</div>
  <div class="item">Item 4</div>

  <div class="item">Item 1</div>
  <div class="item">Item 2</div>
  <div class="item">Item 3</div>
  <div class="item">Item 4</div>

  <div class="item">Item 1</div>
  <div class="item">Item 2</div>
  <div class="item">Item 3</div>
  <div class="item">Item 4</div>
</section>
```

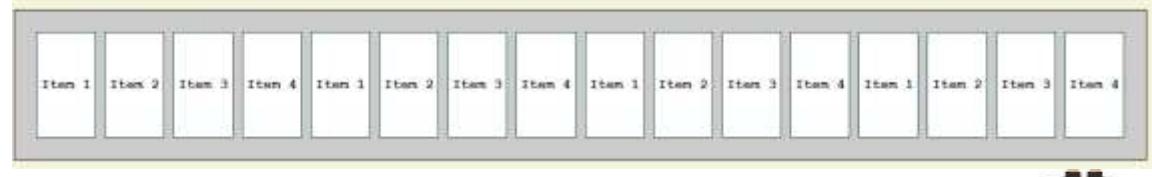


```
.contenedor {
  border: 1px solid black;
  background-color: #ccc;
  padding: 20px;
  display: flex;
  flex-direction: row;
}
```

CSS



Aprendiendo Flexbox





Flex – flex-direction – redimensionando y centrando

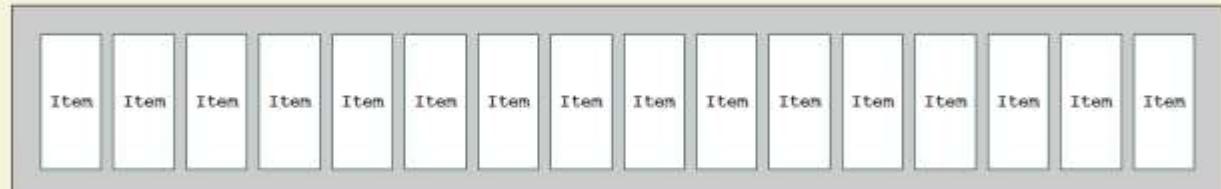
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    flex-direction: row;  
    width: 80%;  
    margin: 0 auto;  
}
```

Elementos se reducen y se ajustan todos al mismo tamaño para caber en el contenedor.

css



Aprendiendo Flexbox



1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4





Flex – flex-wrap

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    flex-direction: row;  
    width: 80%;  
    margin: 0 auto;  
    flex-wrap: wrap;  
}
```

Aprendiendo Flexbox



SS



the Sidn





Flex – flex-flow

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap;  
}
```

Combina el flex-direction y el flex-wrap.

flexbox

CSS



the Side

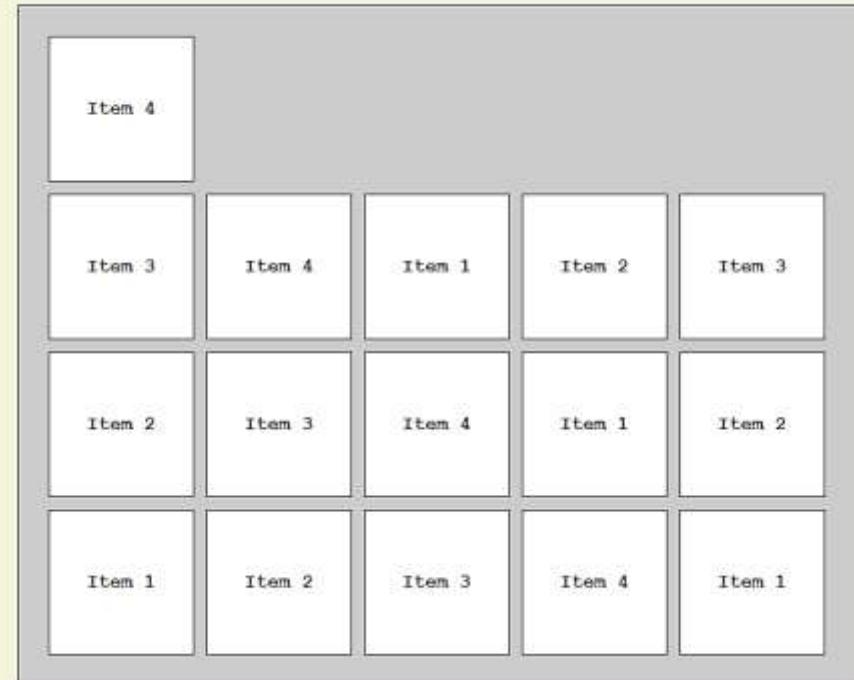




Flex – flex-flow : wrap-reverse

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
}
```

Aprendiendo Flexbox





Flex – quitar cajas y justify-content:space-between

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: space-between;  
}
```

```
<section class="contenedor">  
    <div class="item">Item 1</div>  
    <div class="item">Item 2</div>  
    <div class="item">Item 3</div>  
    <div class="item">Item 4</div>  
</section>
```

Aprendiendo Flexbox



Distribuye el espacio de manera uniforme entre los elementos de un contenedor, dejando espacio en blanco tanto antes del primer elemento como después del último elemento.

Ocupan el 100% del espacio con una separación entre ellos.





Flex – justify-content:space-around

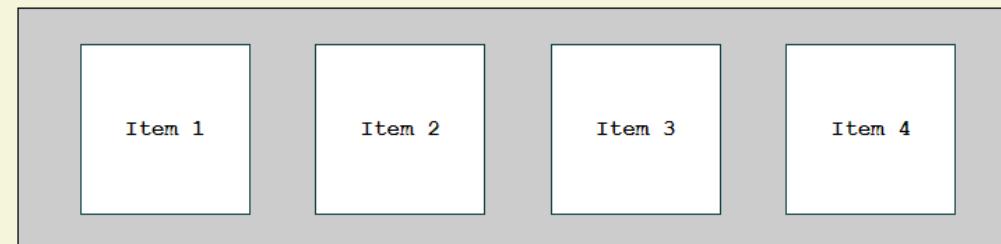
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: space-around;  
}
```

Distribuye el espacio alrededor de los elementos hijos de un contenedor, creando un espaciado uniforme entre ellos y en los extremos.

CSS



Aprendiendo Flexbox





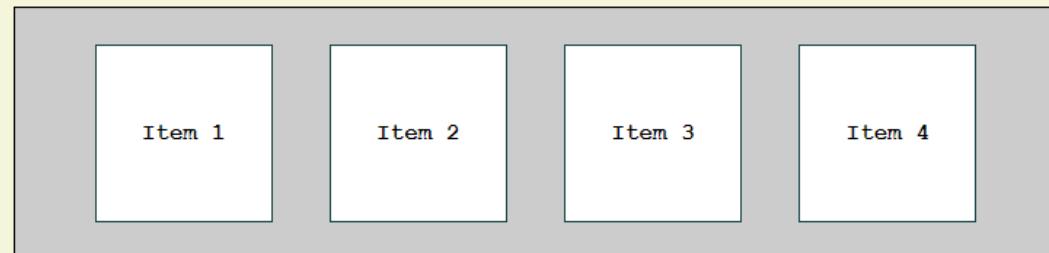
Flex – justify-content:space-evenly

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: space-evenly;  
}
```

Distribuye el espacio entre los elementos de un contenedor, y alrededor del primer y último elemento, de manera uniforme, creando un espaciado equitativo.

css

Aprendiendo Flexbox



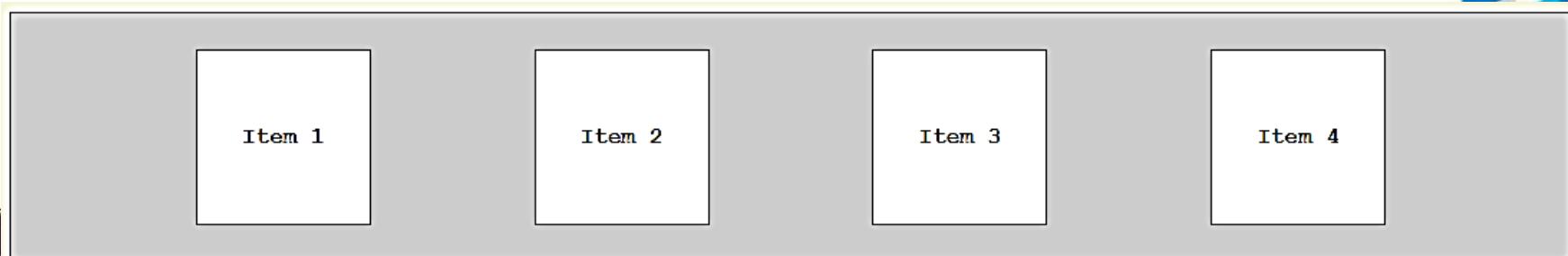
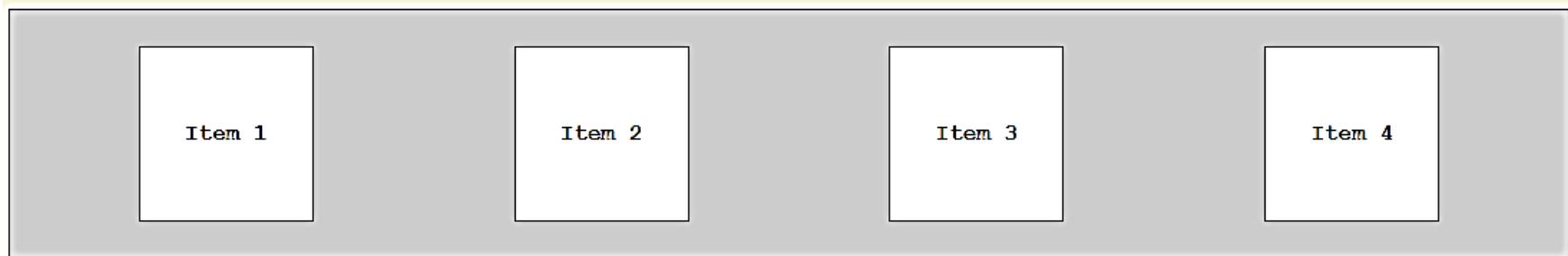
CSS the Side





Flex – space-around vs space-evenly

space-around



space-evenly





css



CSS the Side



Flex – space-around vs space-evenly

En resumen, **space-evenly** distribuye el espacio de manera uniforme entre elementos y en los extremos, mientras que **space-around** distribuye el espacio de manera uniforme alrededor de cada elemento, incluidos los extremos.

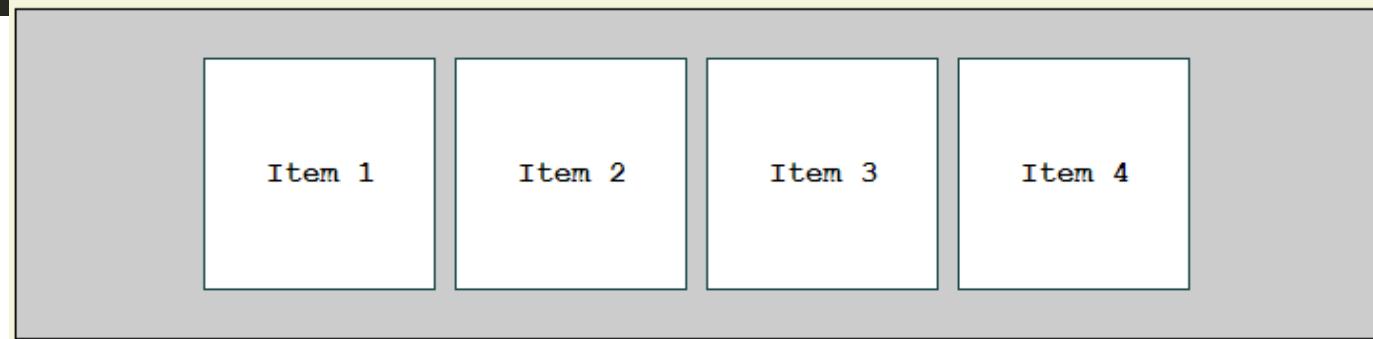




Flex – justify-content:center

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: center;  
}
```

CSS

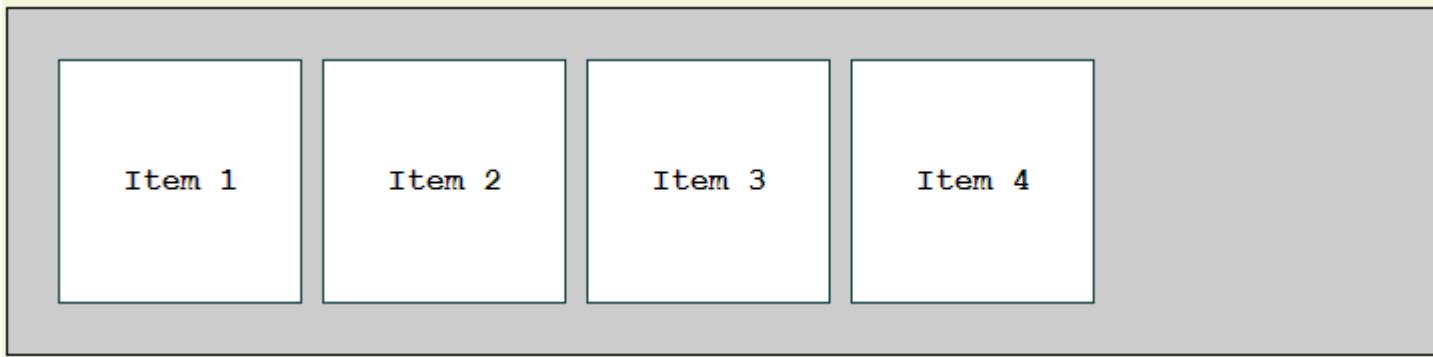




Flex – justify-content:flex-start

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: flex-start;  
}
```

CSS



One Side





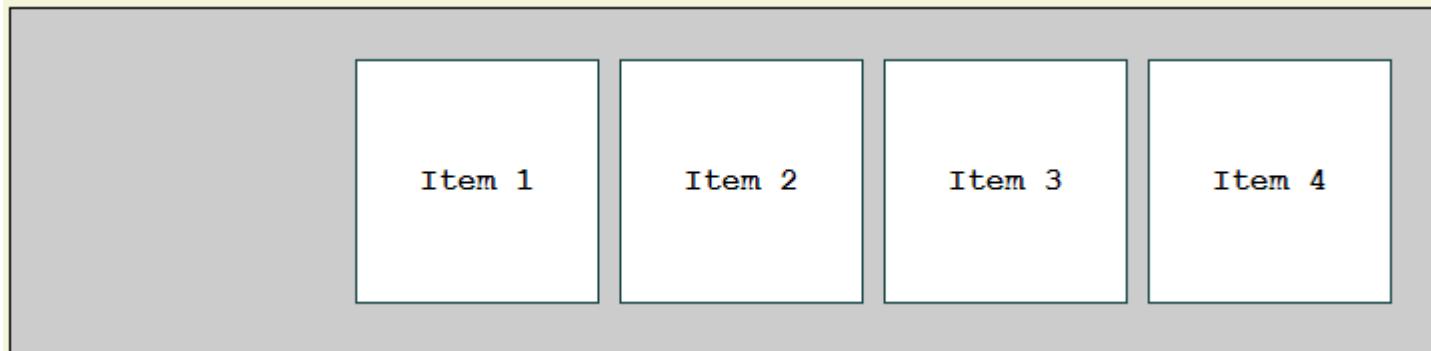
Flex – justify-content:flex-end

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: flex-end;  
}
```

CSS



the Sidn





Flex – altura en el contenedor

```
.item {  
    border: 1px solid #rgb(20, 69, 69);  
    background-color: white;  
    color: black;  
    font-family: 'Courier New', Courier, monospace;  
    font-weight: bold;  
    width: 120px;  
    /*height: 120px;*/  
    line-height: 120px;  
    text-align: center;  
    margin: 5px;  
}
```

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: space-between;  
    height: 600px;  
}
```



CSS



the Sidn





Flex – Quitar la altura en el contenedor y se ajustan las alturas de las cajas

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    flex-flow: row wrap-reverse;  
    justify-content: space-between;  
}
```

css



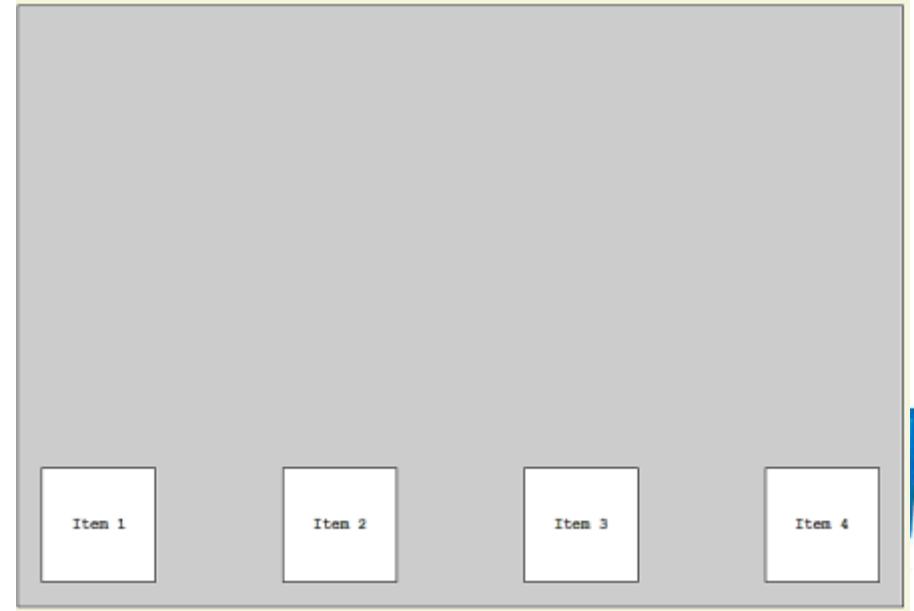
Aprendiendo Flexbox





Flex – align-items: flex-end

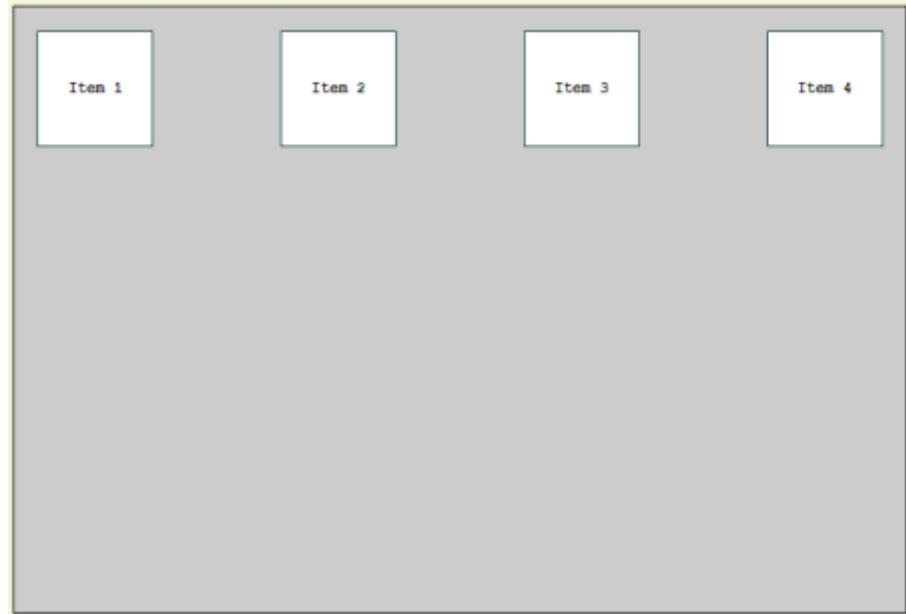
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: space-between;  
    flex-flow: row wrap;  
    height: 600px;  
    align-items: flex-end;  
}
```





Flex – align-items: flex-start

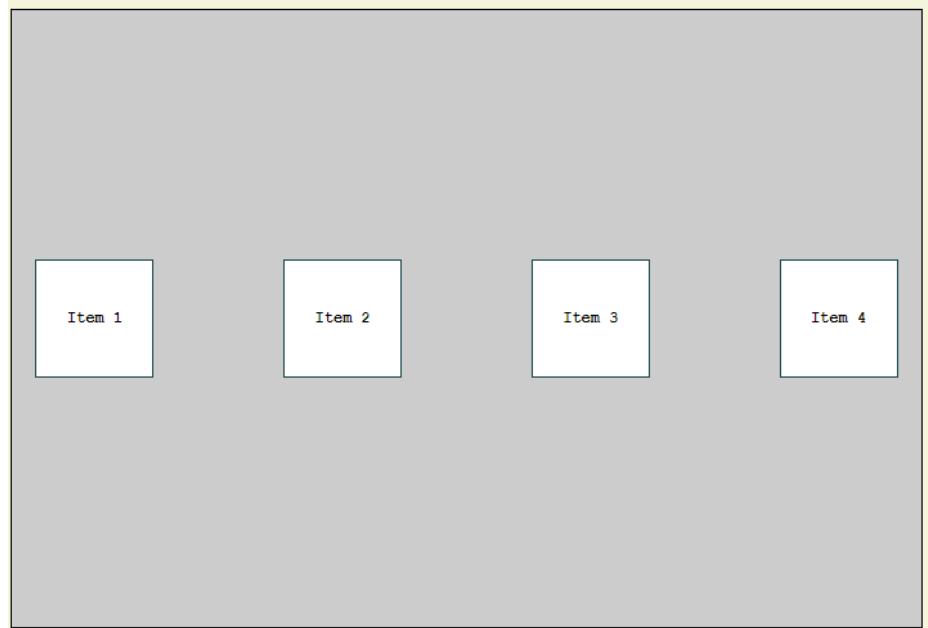
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: space-between;  
    flex-flow: row wrap;  
    height: 600px;  
    align-items: flex-start;  
}
```





Flex – align-items: flex-center

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: space-between;  
    flex-flow: row wrap;  
    height: 600px;  
    align-items: center;  
}
```





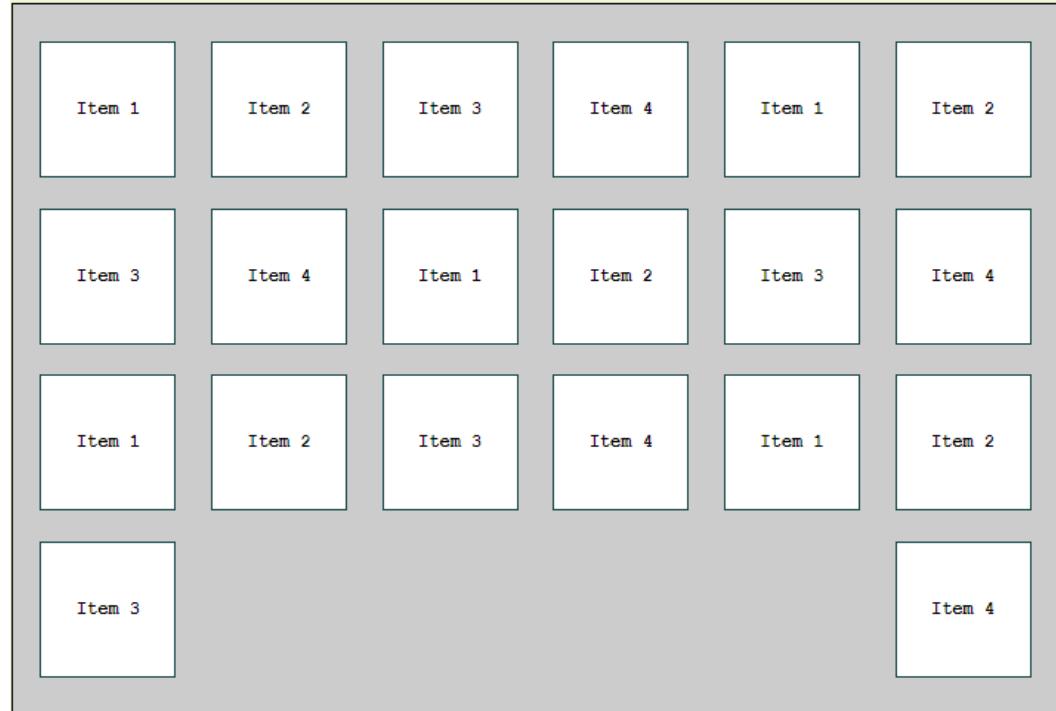
Flex – align-items: flex-center – agreguemos más cajas

```
<div class="item">Item 1</div>
<div class="item">Item 2</div>
<div class="item">Item 3</div>
<div class="item">Item 4</div>
```

```
<div class="item">Item 1</div>
<div class="item">Item 2</div>
<div class="item">Item 3</div>
<div class="item">Item 4</div>
```

```
<div class="item">Item 1</div>
<div class="item">Item 2</div>
<div class="item">Item 3</div>
<div class="item">Item 4</div>
```

```
<div class="item">Item 1</div>
<div class="item">Item 2</div>
<div class="item">Item 3</div>
<div class="item">Item 4</div>
```



CSS



Side

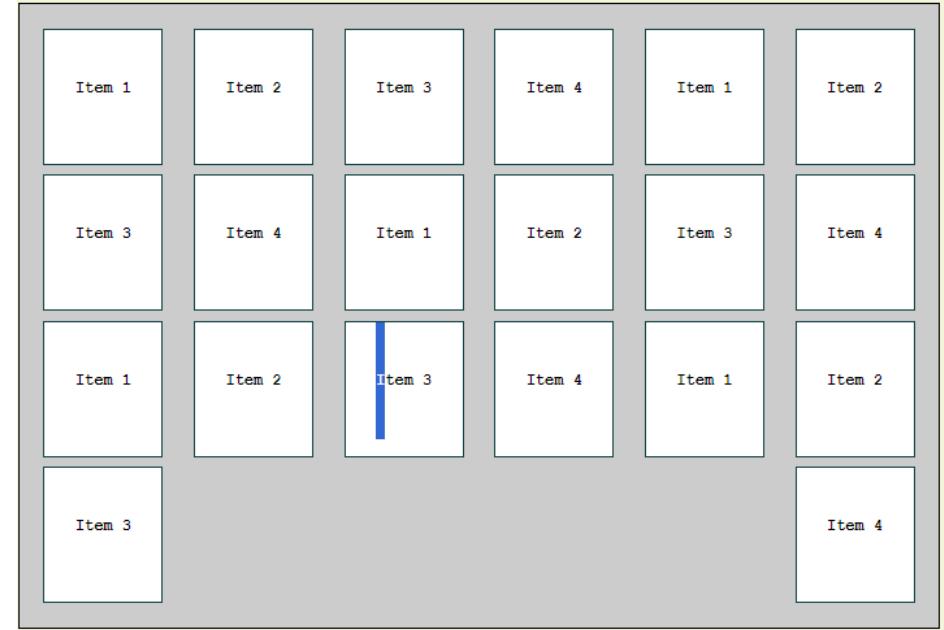
View



Flex – si quitamos el flex-center



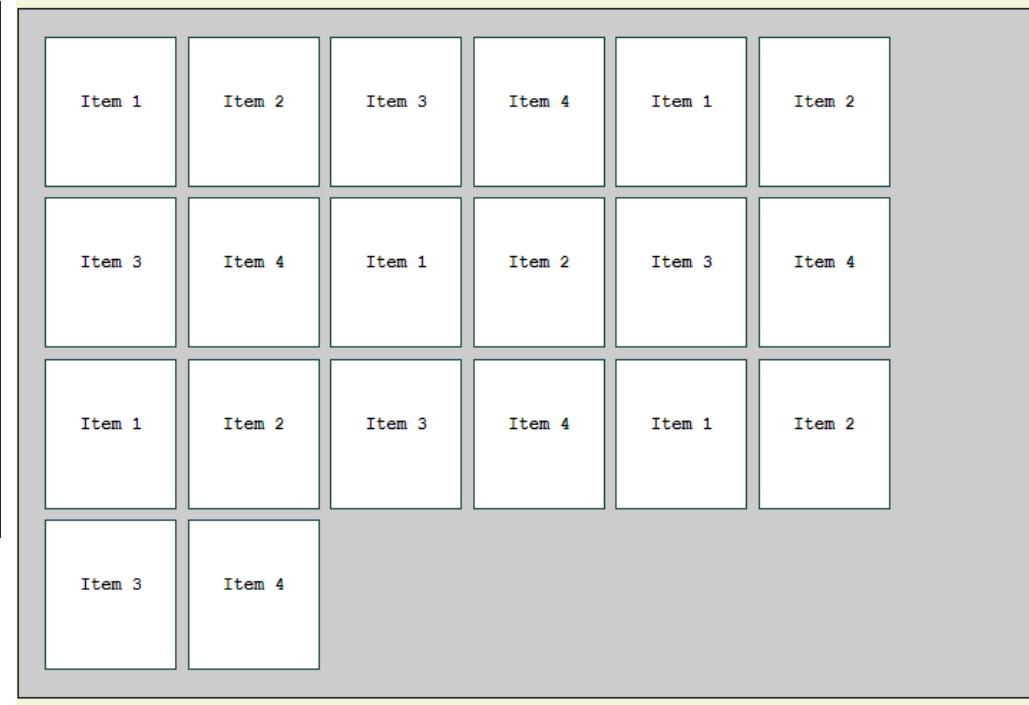
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: space-between;  
    flex-flow: row wrap;  
    height: 600px;  
}
```





Flex – si dejamos justify-content: flex-start;

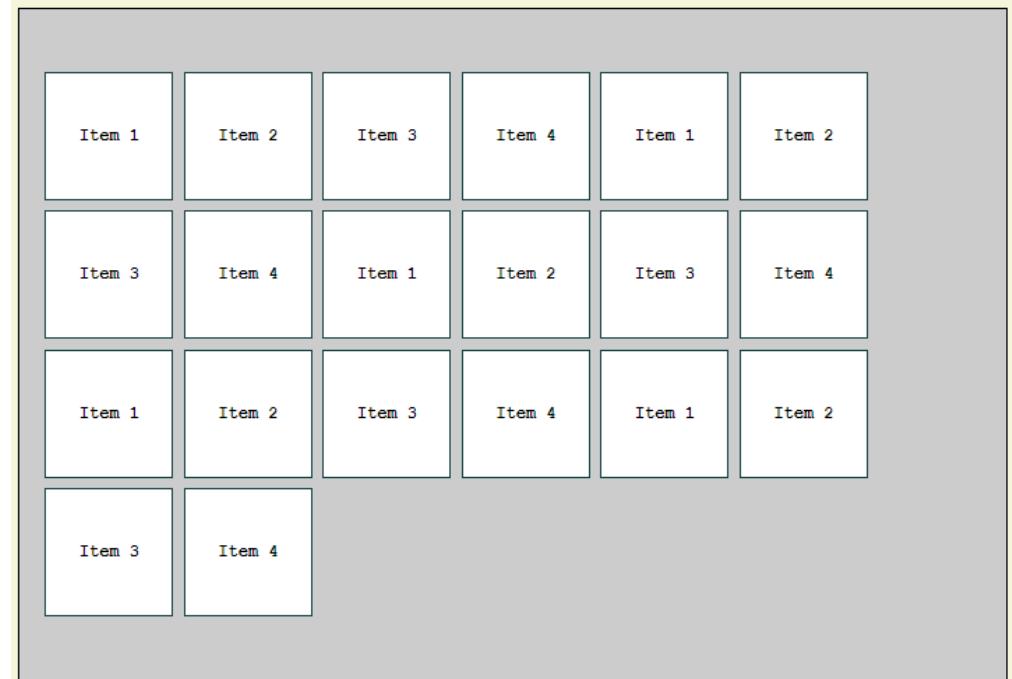
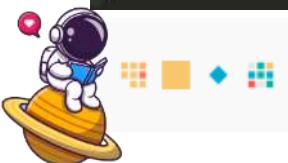
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: flex-start;  
    flex-flow: row wrap;  
    height: 600px;  
}
```





Flex – align-content:center;

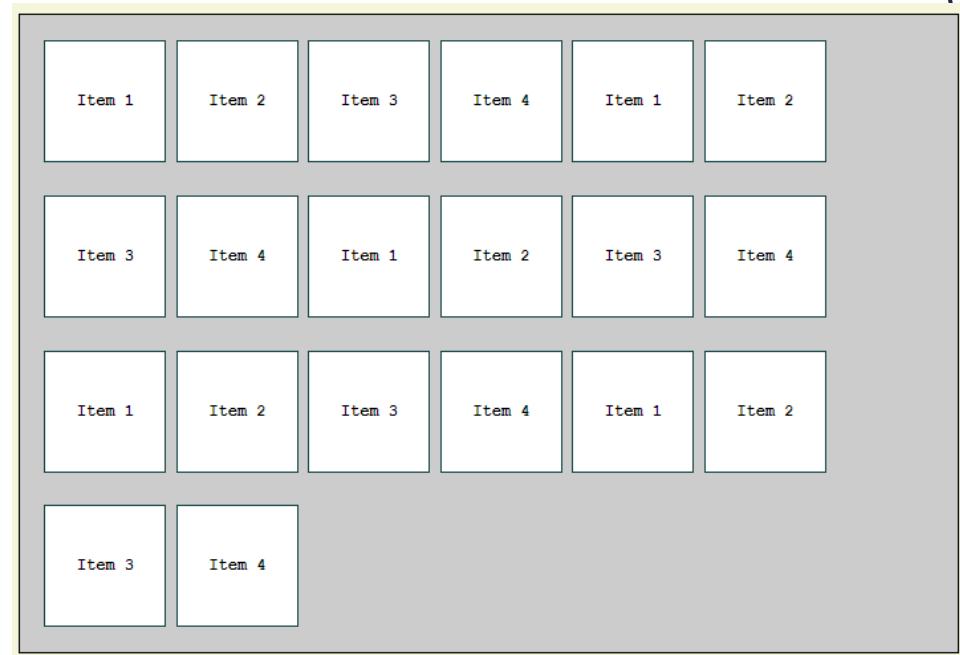
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: flex-start;  
    flex-flow: row wrap;  
    height: 600px;  
    align-content: center;  
}
```





Flex – align-content: space-between

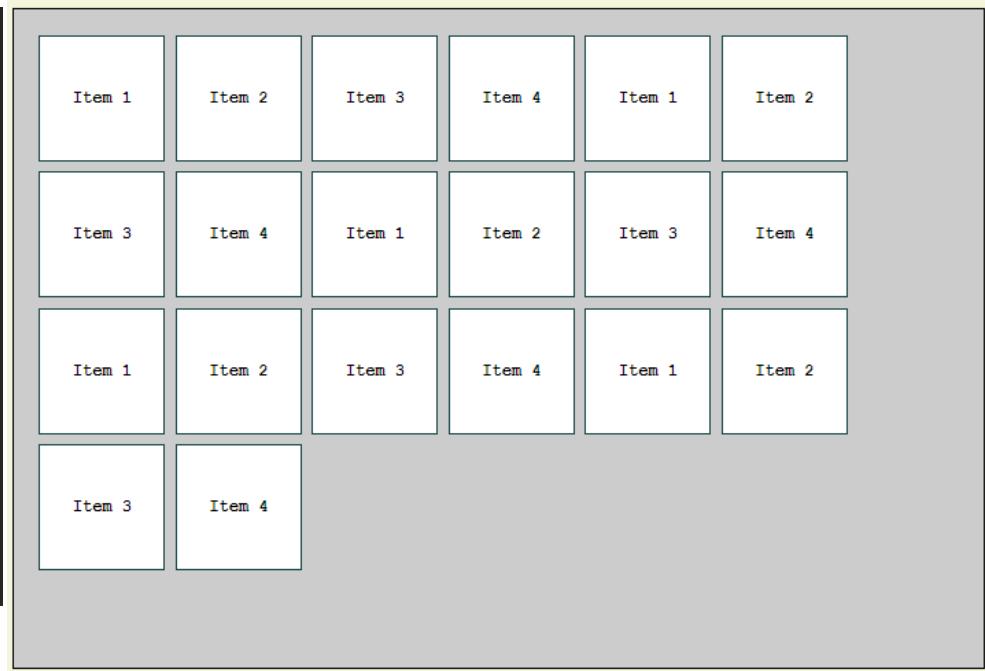
```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: flex-start;  
    flex-flow: row wrap;  
    height: 600px;  
    align-content: space-between;  
}
```





Flex – align-content: flex-start

```
.contenedor {  
    border: 1px solid black;  
    background-color: #ccc;  
    padding: 20px;  
    display: flex;  
    width: 80%;  
    margin: 0 auto;  
    justify-content: flex-start;  
    flex-flow: row wrap;  
    height: 600px;  
    align-content: flex-start;  
}
```





Flex – borramos las cajas y dejamos 3 y colocamos clases diferentes a cada una

```
<section class="contenedor">
    <div class="item i1">Item 1</div>
    <div class="item i2">Item 2</div>
    <div class="item i3">Item 3</div>
    <div class="item i4">Item 4</div>
</section>
```

CSS



Flex – Estilos a cada caja



```
flex-row: row wrap;
height: 600px;
justify-content: center;
align-content: center;
}

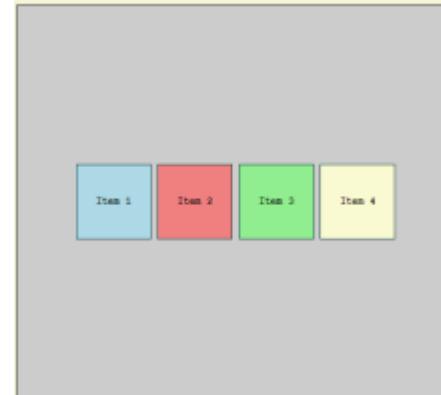
.i1 {
background-color: lightblue;
}

.i2 {
background-color: lightcoral;
}

.i3 {
background-color: lightgreen;
}

.i4 {
background-color: lightgoldenrodyellow;
}
```

```
.item {
border: 1px solid black;
background-color: white;
color: black;
font-family: 'Courier New', Courier, monospace;
font-weight: bold;
width: 200px;
height: 120px; // height: 120px; width: 200px;
line-height: 200px;
text-align: center;
margin: 5px;
}
```



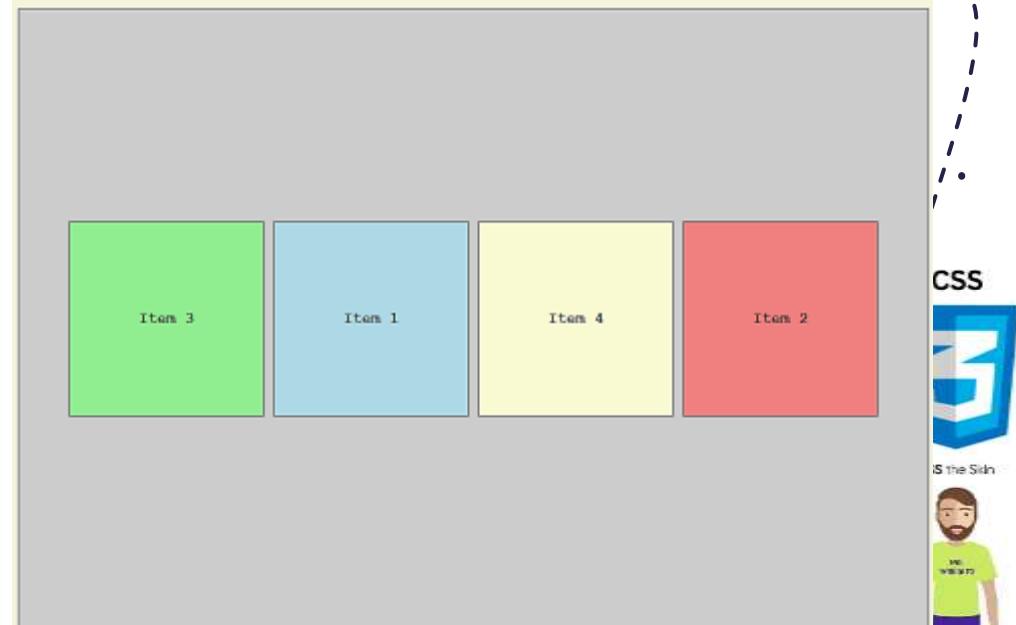
CSS





Flex – order - Ordenando las cajas propiedad

```
.i1 {  
background-color: lightblue;  
order: 2;  
}  
  
.i2 {  
background-color: lightcoral;  
order: 4;  
}  
  
.i3 {  
background-color: lightgreen;  
order: 1;  
}  
  
.i4 {  
background-color: lightgoldenrodyellow;  
order: 3;  
}
```



CSS

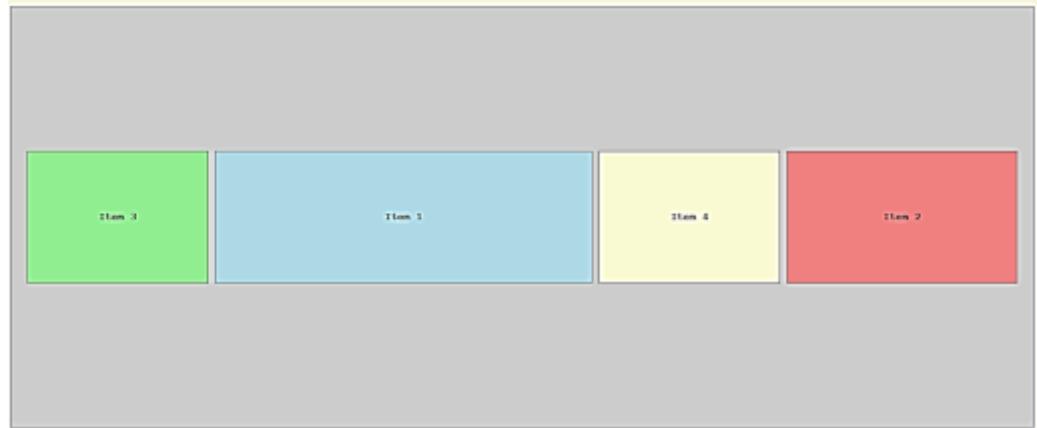


is the Sidn



Flex – flex-grow – Priorizando el ancho de los elementos.

```
.i1 {  
background-color: #lightblue;  
order: 2;  
flex-grow: 5;  
  
.i2 {  
background-color: #lightcoral;  
order: 4;  
flex-grow: 2;  
  
.i3 {  
background-color: #lightgreen;  
order: 1;  
flex-grow: 1;  
  
.i4 {  
background-color: #lightgoldenrodyellow;  
order: 3;  
flex-grow: 1;
```





Flex – flex-grow – Priorizando el ancho de los elementos.

- Quita el width de los ítem y observa el resultado de afectar el ancho de los elementos con **flex-grow**.

```
.item {  
    border: 1px solid #rgb(20, 69, 69);  
    background-color: #white;  
    color: #black;  
    font-family: 'Courier New', Courier, monospace;  
    font-weight: bold;  
    /*width: 200px;*/  
    /*height: 120px;*/  
    line-height: 200px;  
    text-align: center;  
    margin: 5px;  
}
```

css



CSS the Siden

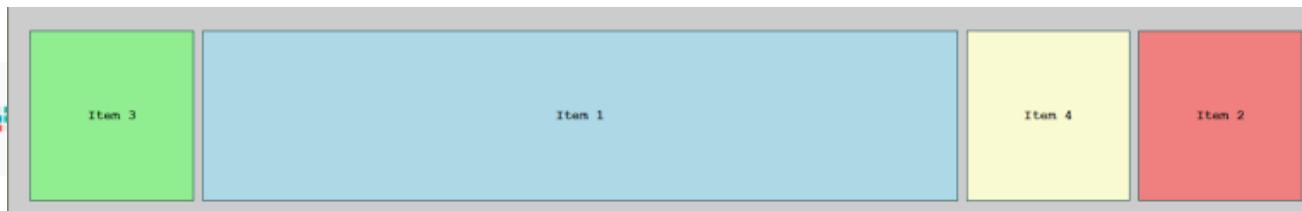


Flex – flex-basis – ancho de los elementos.



Para tener un 50% real de width, hacer flex-grow en 1, en todos los ítems, y **flex-basis de un 50%**.

```
.i1 {  
background-color: lightblue;  
order: 2;  
flex-grow: 1;  
flex-basis: 50%;  
}  
  
.i2 {  
background-color: lightcoral;  
order: 4;  
flex-grow: 1;  
}
```





Flex – flex-basis – ancho de los elementos.

Se usa más el **flex-basis** que el **width** ya que tiene mejor resultado con las propiedades de Flexbox



CSS





Programa académico **CAMPUS**

