



FlexBox in Css

كيف بدأ ال Flexbox

- أول مسودة في 2009
- ظهر علشان يحل لنا شوية مشاكل بتظهر مع استخدام ال float أو كتطوير لامكانيات ال CSS

- As of December 2022, 99.68% of installed browsers (99.59% of desktop browsers and 100% of mobile browsers) support CSS Flexible Box Layout.

حبة كلام نظري مو

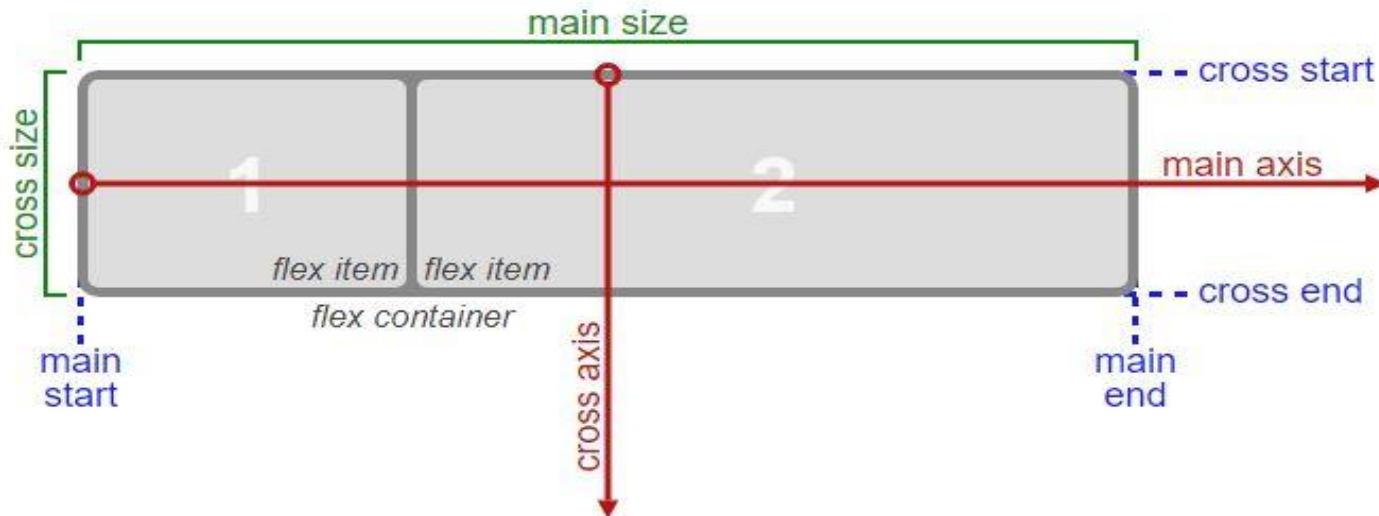


Figure 2 An illustration of the various directions and sizing terms as applied to a 'row' flex container.



Properties for the Parent | flex container 1

- display:

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

- flex-direction: To define which is the main axis

```
.container {  
  flex-direction: row | row-reverse | column | column-reverse;  
}
```



Properties for the Parent | flex container 2

- **flex-wrap:** To allow items to wrap into a new line if they are too large

```
.container {  
  flex-wrap: nowrap | wrap | wrap-reverse;  
}
```

- **flex-flow:** direction & wrap

```
.container {  
  flex-flow: row nowrap;  
}
```

Properties for the Parent | flex container 3

- justify-content: To align items along main axis (horizontally, by default)

```
.container {  
  justify-content: flex-start;  
  justify-content: flex-end;  
  justify-content: center;  
  justify-content: space-between;  
  justify-content: space-around;  
  justify-content: space-evenly;  
  justify-content: start;  
  justify-content: end;  
  justify-content: left;  
  justify-content: right;  
}
```

Properties for the Parent | flex container 4

- align-items: To align items along cross axis (vertically, by default)

```
.container {  
  align-items: stretch;  
  align-items: flex-start;  
  align-items: flex-end;  
  align-items: center;  
  align-items: baseline;  
  align-items: start;  
  align-items: end;  
  align-items: self-start;  
  align-items: self-end;  
}
```

Properties for the Parent | flex container 5

- align-content:

Only applies when there are multiple lines (flex-wrap: wrap)

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

- Difference between align-content and align-items:

- [stackoverflow](#)
- [geeksforgeeks](#)



Properties for the Parent | flex container 6

- **gap, row-gap, column-gap:** To create space between items, without using margin

```
.container {  
  gap: 10px;  
  gap: 10px 20px; /* row-gap column gap */  
  row-gap: 10px;  
  column-gap: 20px;  
}
```



Properties for the Children | flex items 1

- **order:** Controls order of items. -1 makes item first, 1 makes it last

```
.item {  
  order: 5; /* default is 0 */  
}
```

- **flex-grow:** To allow an element to grow (0 means no, 1+ means yes)

```
.item {  
  flex-grow: 4; /* default 0 */  
}
```

- **flex-shrink:** To allow an element to shrink (0 means no, 1+ means yes)

```
.item {  
  flex-shrink: 3; /* default 1 */  
}
```

Properties for the Children | flex items 2

- **flex-basis:** To define an item's width, instead of the width property

```
.item {  
  flex-basis: | auto; /* default auto */  
}
```

- **flex:** Recommended shorthand for flex-grow, -shrink, -basis.

```
.item {  
  flex: none | [ <'flex-grow'> <'flex-shrink'>? || <'flex-basis'> ]  
}
```

- **align-self:** To overwrite align-items for individual flex items

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

The image features a dark navy blue background. On the left side, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram, both tilted at an angle. The green shape is positioned slightly to the right and above the blue one. The text 'CSS filter Property' is written in a white, sans-serif font, centered horizontally in the right half of the image.

CSS filter Property



CSS filter Property

- The filter property defines visual effects (like blur and saturation) to an element (often).

```
img {  
  filter: none | blur() | brightness() | contrast() | drop-shadow() |  
  grayscale() | hue-rotate() | invert() | opacity() | saturate() | sepia() |  
  url();  
}
```

[filter in W3School](#)



CSS Gradients



CSS Gradients

- CSS gradients let you display smooth transitions between two or more specified colors.

```
img {  
  background-image: linear-gradient(direction, color-stop1, color-stop2, ...);  
  background-image: linear-gradient(angle, color-stop1, color-stop2);  
}
```

[Gradients in W3School](#)