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Theme: FlexBox/Grid

What is FlexBox?

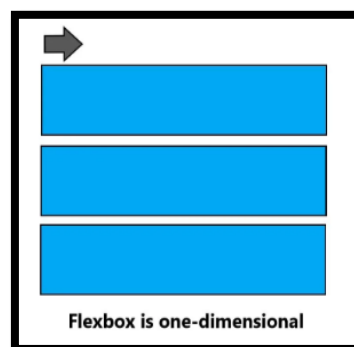
CSS FlexBox is not a simple CSS3 property, it is a layout model that aims to provide a more efficient way of distributing space between elements in a container. FlexBox tries to change the way of designing and generating content fully adaptable to any device.

What makes FlexBox stand out

- Use FlexBox to position the smallest details of a design.
- FlexBox works best in only one dimension (rows or columns).

How FlexBox works?

It is based on a flexible container (flex container), which in turn contains several flexible elements (flex items). The container gives its properties to the elements, that is to say: the elements owe their flexibility to the fact that they are inside the container. FlexBox can be row and column in the sense that it allows the elements to flow and there is no way to control where they will end up as they simply push along a single axis and then move according to the code. In fact, the elements are moved along a one-dimensional plane and it is by that one dimension that we can move the elements, such as aligning them along a baseline.



Example

The parent div is the flexible container, but we don't set the size of the elements there. This is done in flex items, where it is defined by setting flex: 1 1 auto.

```

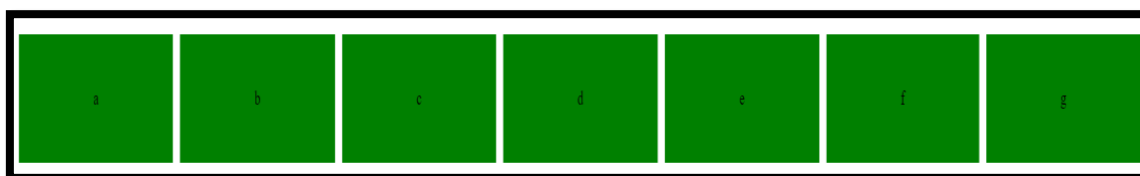
HTML
1 * <div class="parent">
2 *   <div class="child">a</div>
3 *   <div class="child">b</div>
4 *   <div class="child">c</div>
5 *   <div class="child">d</div>
6 *   <div class="child">e</div>
7 *   <div class="child">f</div>
8 *   <div class="child">g</div>
9 * </div>

```

```

CSS (SCSS)
1 * .parent {
2 *   margin: 20px auto;
3 *   display: flex;
4 *   flex-flow: row wrap;
5 * }
6
7 * .child {
8 *   min-height: 100px;
9 *   background: green;
10 *  border: 5px solid white;
11 *  flex: 1 1 auto;
12 *  line-height: 100px;
13 *  text-align: center;
14 * }

```



What is grid?

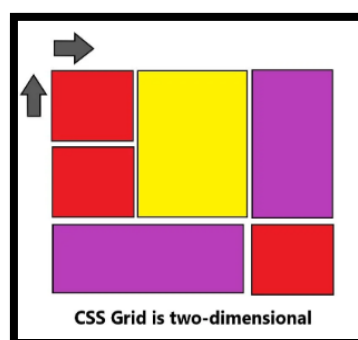
CSS Grid is a web layout system that divides the page into a grid or grid from which the different elements can be positioned in a simpler, more versatile and coherent way. Its practicality and its multiple advantages have made it a standard. That is, almost any browser supports and interprets this type of code.

What makes FlexBox stand out

- For 2D layouts (rows and columns).
- CSS Grid is perfect for building a larger image. It makes it really easy to handle page layout and can even handle unorthodox and asymmetric layouts.

How Grid works?

If you want to set up a grid layout you must create a parent div element (the grid container) and one or more child div elements (the grid elements). Setting the display property of an HTML element turns it into a Grid container, i.e. "The Grid is two-dimensional" in the sense that we can declare the size of the rows and columns and then explicitly place things in both rows and columns like we want.



Example

As you can see, the output is exactly the same as the FlexBox example (apart from the color). Here, however, the size of the items is not defined inside the Grid-items, but in the Grid-container.

```
HTML
1 * <div class="parent">
2 *   <div class="child">a</div>
3 *   <div class="child">b</div>
4 *   <div class="child">c</div>
5 *   <div class="child">d</div>
6 *   <div class="child">e</div>
7 *   <div class="child">f</div>
8 *   <div class="child">g</div>
9 * </div>
```

```
CSS
1 * .parent {
2 *   margin: 20px auto;
3 *   display: grid;
4 *   grid-template-columns: 4fr 1fr 1fr 1fr 1fr 1fr 8fr;
5 * }
6
7 * .child {
8 *   min-height: 100px;
9 *   background: orange;
10 *   border: 20px solid white;
11 *   line-height: 100px;
12 *   text-align: center;
13 * }
```

