CSS Flexbox

There were four layout modes:

* Block, for sections in a webpage
* Inline, for text
* Table, for two-dimensional table data
* Positioned, for explicit position of an element

**Display property:** It create either a block level or inline level flex container.

.container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 150px;

          display: flex; /\* Flex Display Properties\*/

## **The flex-direction Property:** The flex-direction property specifies the direction of the flexible items.

  .container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 150px;

          display: flex; /\* Flex Display Properties\*/

         flex-direction: column; }

## **The flex-wrap Property:** It specifies whether the flex items should wrap or not, if there is not enough room for them on one flex line

.container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 150px;

          display: flex;

 flex-wrap: wrap;

}

## **The flex-flow Property:** It is a shorthand property for flex-direction and flex-wrap.

.container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 150px;

          display: flex;

flex-flow: row wrap; /\* Combination of Direction and wrap flex Properties\*/

## **The justify-content Property:** It is horizontally aligns the flex items when the items do not use all available space on the main-axis

.container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 150px;

          display: flex;

justify-content: flex-start;/\*align items& distribute any extra space in parent container\*/

        }

## **The align-items Property:** It vertically aligns the flex items when the items do not use all available space on the cross-axis

 .container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 130px;

          display: flex;

align-items: flex-start;

}

**The align-content Property**: It   
modifies the behavior of the flex-wrap property.

.container { /\* Flex Entity  width: 200px;\*/

          border: 6px solid black;

          height: 130px;

          display: flex;

align-items: flex-start;

align-content: flex-start;/\*Aligns lines of content

            along the cross axis and distribute

            any extra spacing in the parent container\*/

        }

**Order:** It go from lowest to higher value.

 .item-4 {background-color: #008c76ff;order: -1;}

**Align-Self:** It is basically overrides the align-items value of the flex container. Auto(default).

   .item-1 {background-color: #FFDDE2FF; align-self: stretch;}

**Flex-Grow:** It detects what amount of the available space inside the flex container the item should take up.

.item-2 {background-color: #FAA094FF;flex-grow: 5;}

**Flex-Shrink:** It is set to a value of 1 by default for every single flex item.

.flex-item {

            color: rgb(255, 255, 255);

            font-size: 1.5rem;

            margin: 5px;

            padding: 10px;

            flex-shrink: 0;

}

**Flex:** It is a short hand for flex grow, flex shrink and flex basis.

.flex-item {

            color: rgb(255, 255, 255);

            font-size: 1.5rem;

            margin: 5px;

            padding: 10px;

 flex: 0 1 80px;

}