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# FLEXBOX PROPERTIES

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In a flexbox layout, some properties are applied to the flex container, while others are applied to the flex items.

- The properties are applied to the flex container:

- 1. display property:

- The flex container becomes flexible by setting the display property to flex.

- 2. flex-direction:

- defines in which direction the container wants to stack the flex items.
    - Its values are
      - The column value: from top to bottom.
      - The column-reverse value: from bottom to top.
      - The row value: from left to right(Default).
      - The row-reverse value: from right to left.

- 3. flex-wrap:

- specifies whether the flex items should wrap or not.
    - Its values are
      - The nowrap value: the flex items will not wrap(Default).
      - The wrap value: the flex items will wrap if necessary.
      - The wrap-reverse value: specifies that the flexible items will wrap if necessary, in reverse order.

- 4. The flex-flow property:

- A shorthand property for setting both the flex-direction and flex-wrap properties.  
For example: flex-flow: row wrap.

- 5. justify-content:

- is used to align the flex items.
    - Its values are
      - The flex-start value: aligns the flex items at the beginning of the container (Default).
      - The center value: aligns the flex items at the center of the container.

- The flex-end value: aligns the flex items at the end of the container.
- The space-around value: displays the flex items with space before, between, and after the lines.(half-sized space on the edges).
- The space-between value: displays the flex items with space between the lines.
- The space-evenly value: It is similar to space-around but provides equal instead of half-sized space on the edges.

## 6. align-items:

- is used to align the flex items.
- Its values are
  - The center value: aligns the flex items in the middle of the container.
  - The flex-start value: aligns the flex items at the top of the container.
  - The flex-end value: aligns the flex items at the bottom of the container.
  - The stretch value: stretches the flex items to fill the container (**Default**).
  - The baseline value: aligns the flex items such as their baselines aligns.

## 7. align-content:

- is used to align the flex lines.
- Its values are
  - The space-between value displays the flex lines with equal space between them.
  - The space-around value displays the flex lines with space before, between, and after them.
  - The stretch value stretches the flex lines to take up the remaining space (**Default**).
  - The center value displays the flex lines in the middle of the container.
  - The flex-start value displays the flex lines at the start of the container.
  - The flex-end value displays the flex lines at the end of the container.

## ■ The properties are applied to the flex-items:

### 1. Order:

- specifies the order of the flex items(default value is 0).

### 2. flex-grow:

- specifies how much a flex item will grow relative to the rest of the flex items(default value is 0).

### 3. flex-shrink:

- specifies how much a flex item will shrink relative to the rest of the flex items.( default value is 1).

### 4. flex-basis:

- specifies the initial length of a flex item.

### 5. Flex:

- is a shorthand property for the flex-grow, flex-shrink, and flex-basis properties.

### 6. align-self:

- specifies the alignment for the selected/specified item inside the flexible container.
- overrides the default alignment set by the container's align-items property.
- Its values are
  - The center value: aligns the flex items in the middle of the container.
  - The flex-start value: aligns the flex items at the top of the container.
  - The flex-end value: aligns the flex items at the bottom of the container.
  - The stretch value: stretches the flex items to fill the container (Default).
  - The baseline value: aligns the flex items such as their baselines aligns.