CSS Flexbox

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CSS Flexbox, or Flexible Box Layout, is a layout model that allows you to create responsive and dynamic layouts with less code.

1. Flex Container (display: flex;)

To use Flexbox, you need to define a container as a flex container. You can do this by applying display: flex; to the container element. The display: flex; property makes all direct children of the container into flexible items.

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

2. Flex Direction (flex-direction)

The flex-direction property defines the direction in which the items within the flex container are placed. It can be set to one of the following values:

- row: Default value. Items are placed in the same direction as the text.
- row-reverse: Items are placed in the opposite direction as the text.
- column: Items are placed top to bottom.
- column-reverse: Items are placed bottom to top.

```
.container {
  flex-direction: row; /* or column, row-reverse, column-reverse */
}
```

3. Justify Content (justify-content)

This property aligns items along the main axis of the container. It defines how space is distributed between and around the items. Common values include:

- flex-start: Items are packed at the start of the main axis.
- flex-end: Items are packed at the end of the main axis.
- center: Items are centered along the main axis.
- space-between: Items are evenly distributed with the first item at the start and the last item at the end.
- space-around: Items are evenly distributed with equal space around them.
- space-evenly: Items are evenly distributed with equal space around them, including the space before the first and after the last item.

```
.container {
  justify-content: center; /* or flex-start, flex-end, space-between, space-around, space-evenly */
}
```

4. Align Items (align-items)

This property aligns items along the cross-axis (perpendicular to the main axis). It determines how items are positioned in the flex container. Common values include:

- flex-start: Items are aligned at the start of the cross axis.
- flex-end: Items are aligned at the end of the cross axis.
- center: Items are centered along the cross axis.
- baseline: Items are aligned based on their baseline.
- stretch: Items are stretched to fill the container (default).

```
.container {
  align-items: center; /* or flex-start, flex-end, baseline, stretch */
}
```

5. Flex Property (flex)

The flex property is shorthand for three individual properties: flex-grow, flex-shrink, and flex-basis. It's used to specify how a flex item will grow or shrink to fit the available space.

```
.item {
  flex: 1; /* flex-grow: 1, flex-shrink: 1, flex-basis: 0% */
}
```