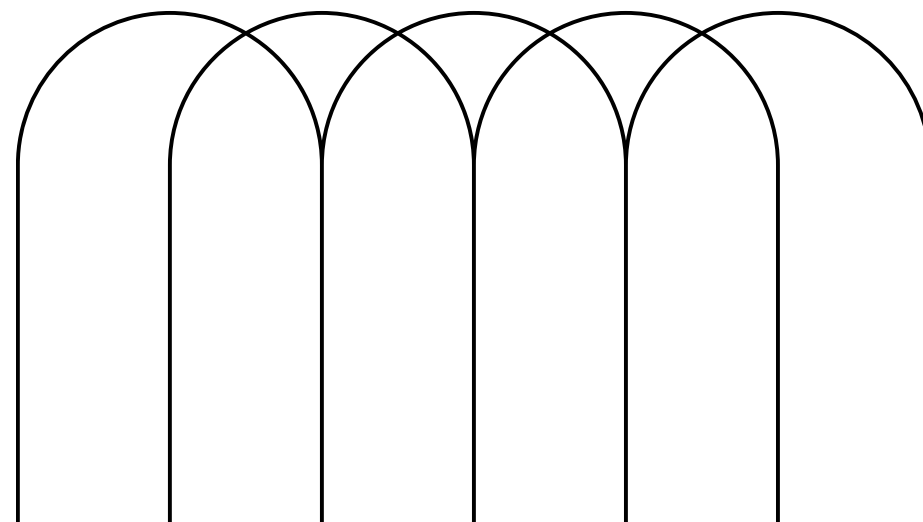


CSS Flexbox



CSS Flexbox

Flexbox, short for Flexible Box Layout, is a CSS module designed to arrange elements efficiently in a one-dimensional layout, either as a row or a column. It provides powerful alignment and distribution capabilities, making it ideal for responsive design.

Flexbox consists of two primary components:

- **Flex Container** - The parent element that contains flex items.
- **Flex Items** - The child elements within the flex container that are positioned according to flexbox rules.

Example

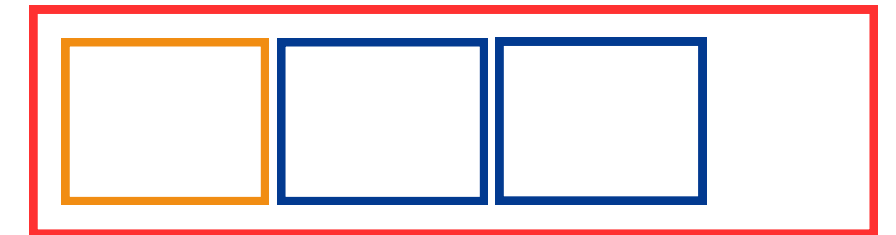
```
.container{  
  display: flex;  
}
```

CSS Flexbox

Flex Container Properties

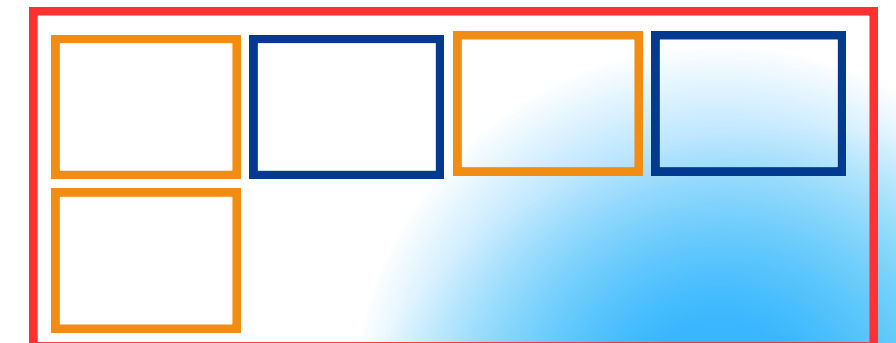
1. **flex-direction** : Defines the direction in which flex items are placed in the container

```
.container{
  display: flex;
  flex-direction: row; /* row (Default) | row-reverse | column | column-reverse */
}
```



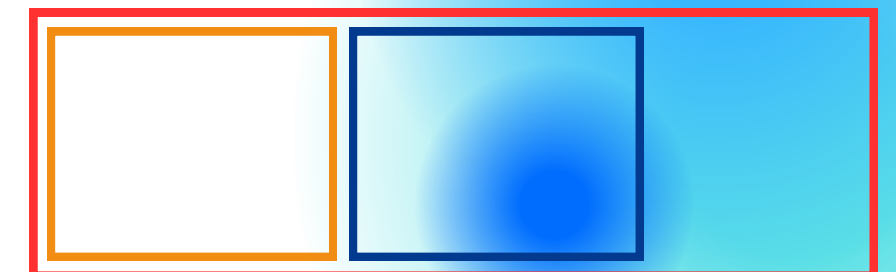
2. **flex-wrap** : Determines whether items should wrap to the next line when the container is too small.

```
.container{
  display: flex;
  flex-wrap: wrap; /* nowrap (Default) | wrap | wrap-reverse */
}
```



3. **justify-content** : Aligns items along the flex-direction (horizontally for row, vertically for column).

```
.container{
  display: flex;
  justify-content: flex-start; /* flex-start (Default) | flex-end | center | space-between | space-around | space-evenly */
}
```

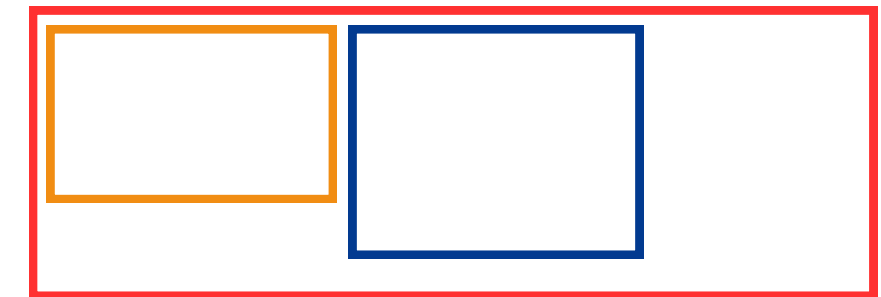


CSS Flexbox

Flex Container Properties

4. **align-items** : Aligns items along the cross axis (perpendicular to the flex-direction).

```
.container{  
  display: flex;  
  align-items: flex-start; /* flex-start | flex-end | center | column-reverse | baseline | stretch (Default) */  
}
```

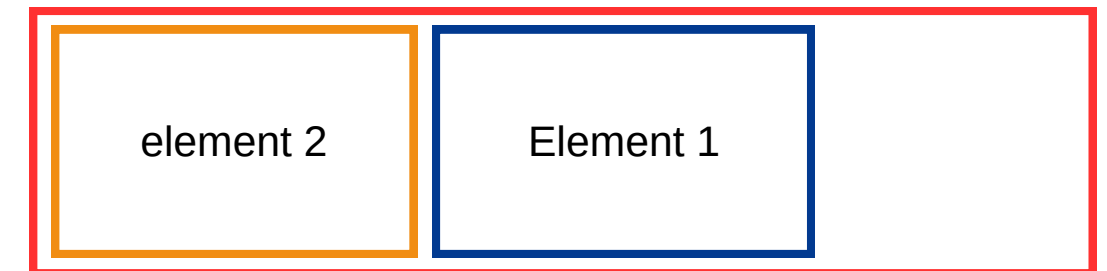


CSS Flexbox

Flex Item Properties

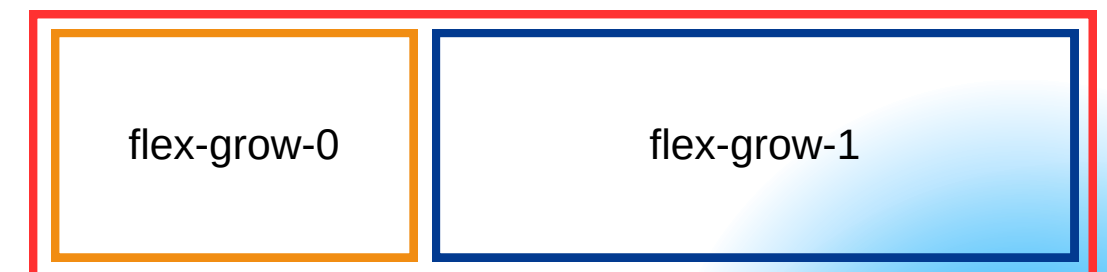
1. **order** : Defines the order in which items appear in the flex container.

```
.flex-item {
  order: 1; /* Default is 0 */
}
```



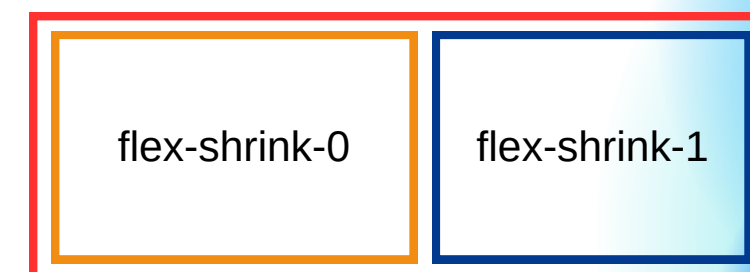
2. **flex-grow** : Defines if an item should grow relative to others.

```
.flex-item {
  flex-grow: 1; /* Default is 0 */
}
```



3. **flex-shrink** : Defines if an item should shrink relative to others.

```
.flex-item {
  flex-shrink: 1; /* Default is 1 */
}
```

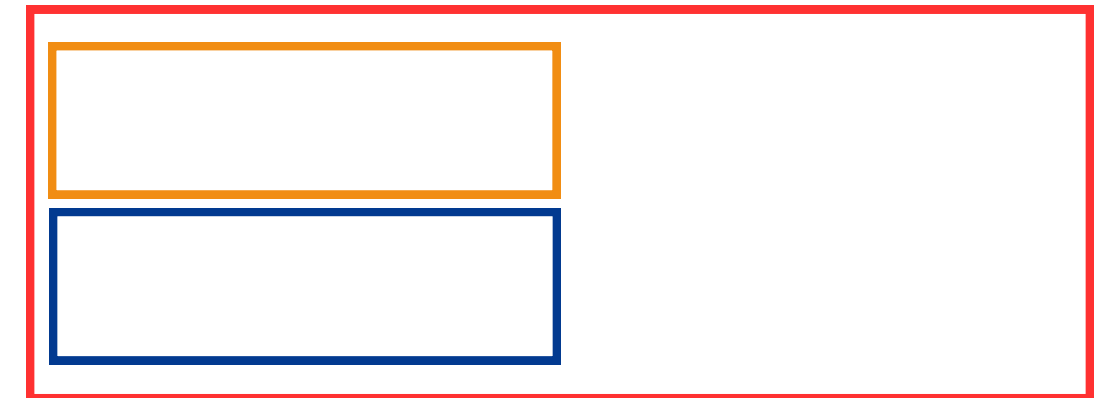


CSS Flexbox

Flex Item Properties

4. **flex-basis** : Defines the minimum size of an item before remaining space is distributed.

```
.flex-item{
  width: 40%;
  flex-basis: 230px;
}
```



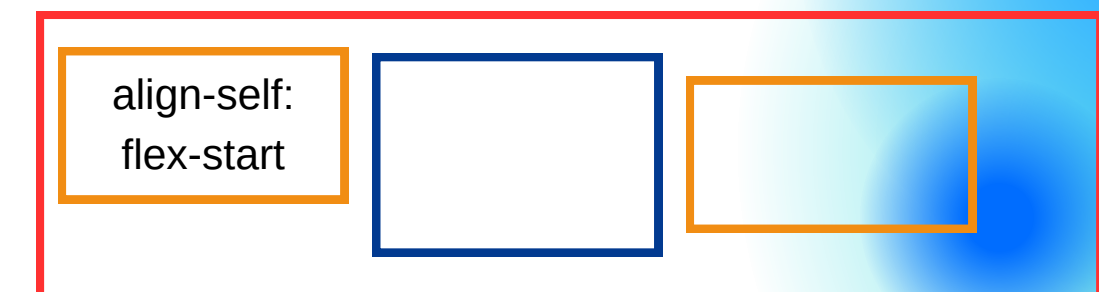
5. **flex**: It's a shorthand for flex-grow, flex-shrink and flex-basis

```
.flex-item {
  flex: 0 1 auto ; /* Equivalent to flex-grow: 0; flex-shrink: 1; flex-basis: auto; */
}
```

6. **align-self** : It allows individual items to override align-items property for itself

```
.flex-item {
  align-self: auto; /* Options: auto (Default) | flex-start | flex-end | center | baseline | stretch */
}
```

align-items: center





THANK YOU

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