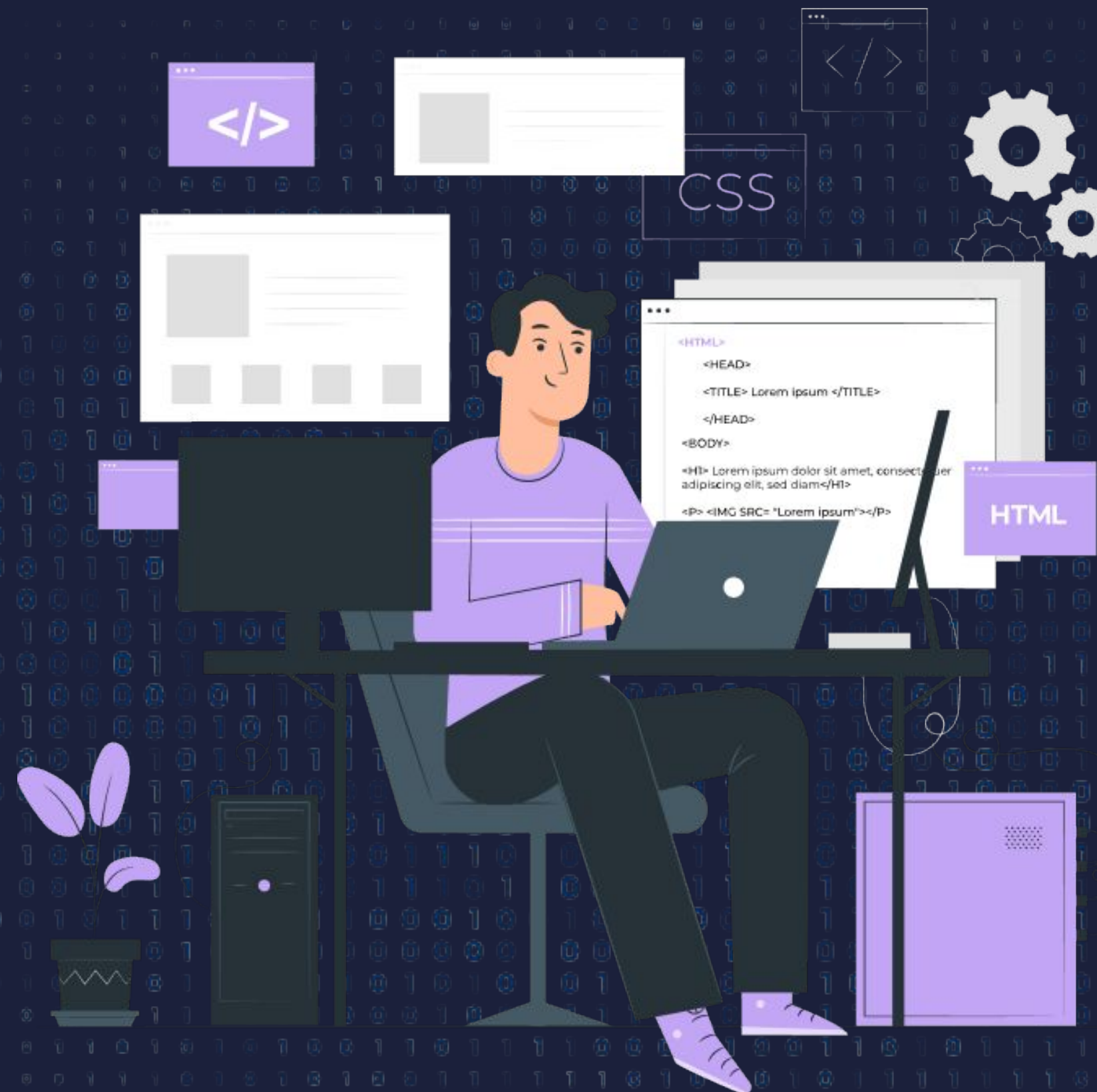# Flex Container Properties

Topics

- What are Flexbox container properties?
- The different types of Flexbox properties with Example

What are Flexbox container properties?

Some flexbox properties apply to the container, which sets the general rules for its items.

- **flex-direction -** specifies the direction of flex
- **justify-content -** specifies the alignment of flex items
- **align-items -** specifies the the alignment of flex items too
- **flex-wrap -** specifies the alignment of flex items to single or multiple lines
- **flex-flow -** specifies the direction of flex container as it wrapping behavior
- **Align-content -** specifies the alignment of flex lines

Flexbox properties with Examples

Flex-direction (row default value)

HTML

```
<div class="container">
    <div class="item">1</div>
    <div class="item">2</div>
    <div class="item">3</div>
    <div class="item">4</div>
</div>
```
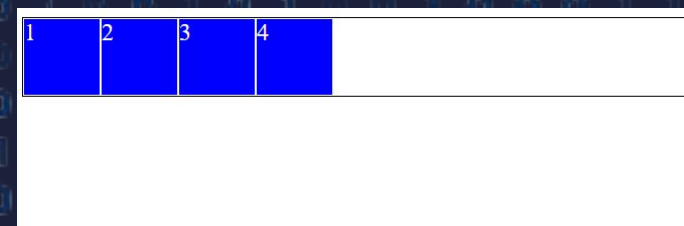
CSS

```
.container {
  display: flex;
  border: 1px solid black;
  /* row is the default*/
  flex-direction:row;
  color: white;
}
.item {
  width: 50px;
  height: 50px;
  background-color: blue;
  border: 1px solid;
}
```

```
.container {
  display: flex;
  border: 1px solid black;
  flex-direction:column;
  color: white;
}
.item {
  width: 50px;
  height: 50px;
  background-color: blue;
  border: 1px solid;
}
```

Output

justify-content (flex-start default value)

HTML

```html
<head>
    <link rel="stylesheet" href="style.css" />
 </head>
  <body>
    <div>
      <p>Justify-content:flex-start(default)</p>
      <div class="container start">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
      <p>Justify-content: flex-end</p>
      <div class="container end">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
      <p>Justify-content: space-between</p>
      <div class="container between">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
```

```html
      <p>Justify-content: space-around</p>
      <div class="container around">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>

      <p>Justify-content: space-evenly</p>
      <div class="container evenly">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>

      <p>Justify-content: space-center</p>
      <div class="container center">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
    </div>
  </body>
</html>
```
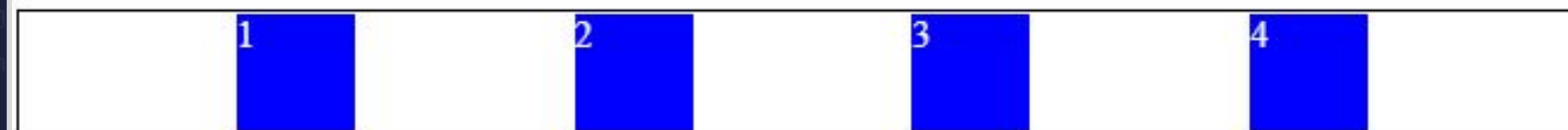
justify-content (flex-start default value)

continue…

CSS

```css
.container {
  display: flex;
  flex-wrap: wrap;
  border: 1px solid black;
  color: white;
}
.item {
  width: 50px;
  height: 50px;
  background-color: blue;
  border: 1px solid;
}
.start {
  justify-content: flex-start;
}

.end {
  justify-content: flex-end;
}
.between {
  justify-content: space-between;
}
.around {
  justify-content: space-around;
}

.evenly {
  justify-content: space-evenly;
}
.center {
  justify-content: center;
}
```

Output

align-items

HTML

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport"
content="width=device-width, initial-scale=1.0"
/>
    <meta http-equiv="X-UA-Compatible"
content="ie=edge" />
    <title>Document</title>
    <link rel="stylesheet" href="style.css" />
  </head>

  <body>
    <div>
      <!—flex-stretch is the default value of
align-items —>

      <p>align-items:stretch(default)</p>

      <div class="container stretch">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
```
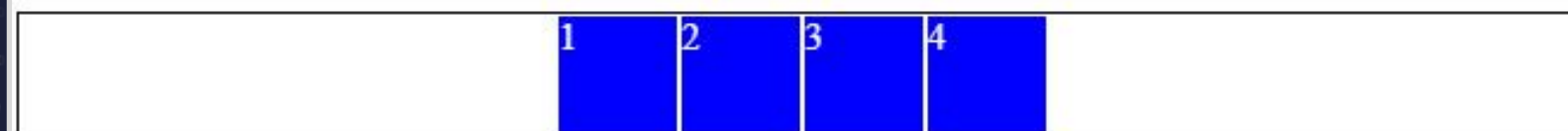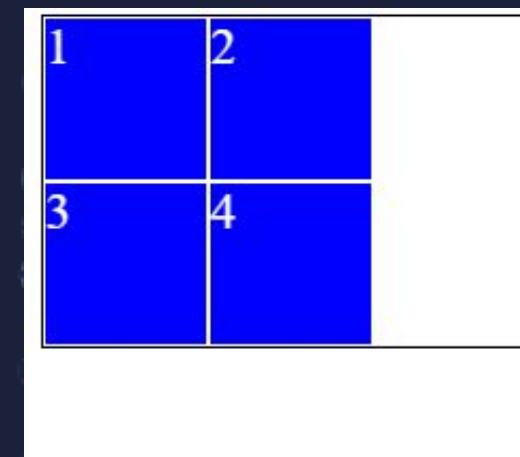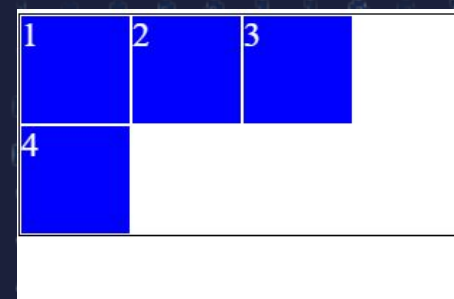
```html
      <p>align-items: flex-start</p>
      <div class="container start">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
      <p>align-items: end</p>
      <div class="container end">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
      <p>align-items: center</p>
      <div class="container center">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
     <p>align-items:baseline</p>
      <div class="container baseline">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
      </div>
    </div>
  </body>
</html>
```

align-items

continue…

CSS

```css
.container {
  display: flex;
  flex-wrap: wrap;
  border: 1px solid black;
  color: white;
  height: 10vh;
}
.item {
  width: 50px;

  background-color: blue;
  border: 1px solid;
}

.stretch {
  align-items: stretch;
}

.start {
  align-items: flex-start;
}
.end {
  align-items: flex-end;
}
.center {
  align-items: center;
}

.baseline {
  align-items: baseline;
}
```

Output

align-items:stretch(default)

| 1 | 2 | 3 | 4 |

align-items: flex-start

| 1 | 2 | 3 | 4 |

align-items: end

| 1 | 2 | 3 | 4 |

align-items: center

| 1 | 2 | 3 | 4 |

align-items:baseline

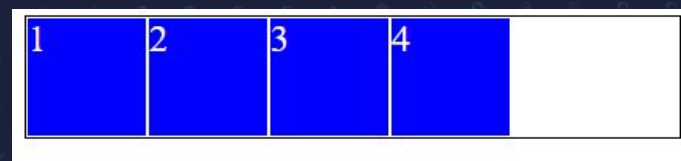| 1 | 2 | 3 | 4 |

flex-wrap

```
.container {
  display: flex;
  flex-direction: row;
  border: 1px solid black;
  color: white;
  height: 210px;
  width: 100px;
  // wrap the items and stack it
  flex-wrap: wrap;
  justify-content: space-around;
  align-items: center;
}
.item {
  width: 50px;
  height: 50px;
  background-color: blue;
  border: 1px solid;
}
```
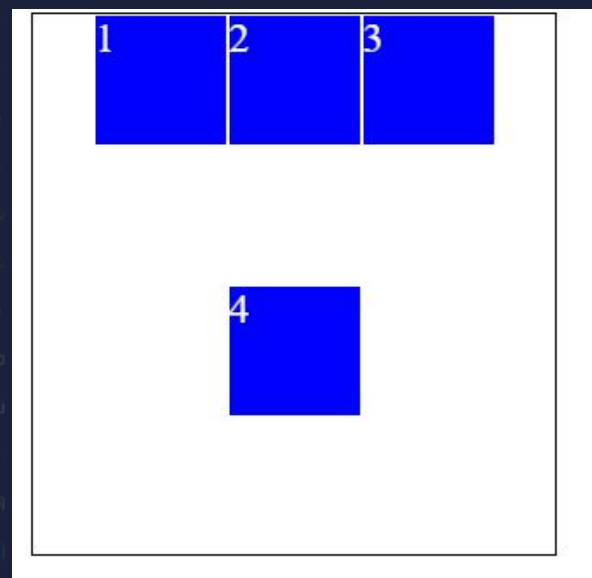
Output

flex-flow

```css
.container {
  display: flex;
  flex-direction: row;
  border: 1px solid black;
  color: white;
  height: 210px;
  width: 200px;
  flex-flow: row wrap;
  justify-content: center;
}
.item {
  width: 50px;
  height: 50px;
  background-color: blue;
  border: 1px solid;
}
```

Output

Align-content

HTML

```
<body>
  <div>
    <!-- strectch is the default value of
align-content -->
    <p>align-content:stretch(default)</p>
    <div class="container stretch">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
    <p>align-content: space-around</p>
    <div class="container around">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
```

```
<p>align-content: space-between</p>
    <div class="container between">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
    <p>align-content: center</p>
    <div class="container center">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
    <p>align-content:flex-start</p>
    <div class="container start">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
```
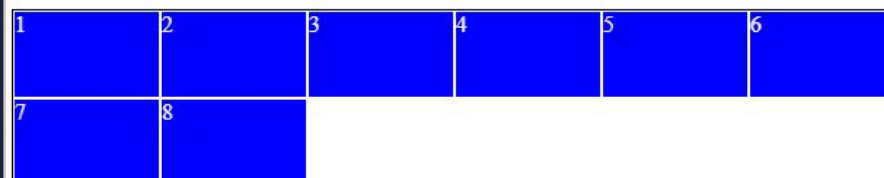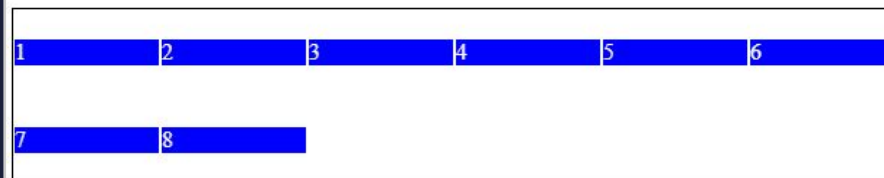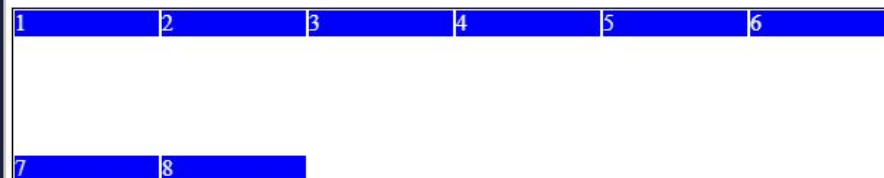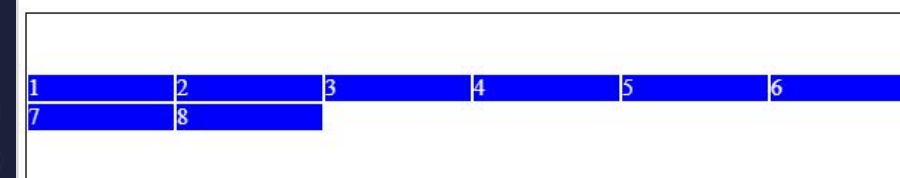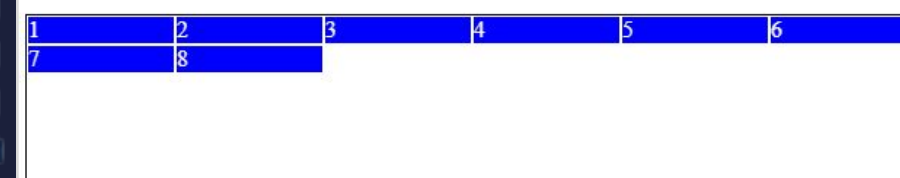
```
<p>align-content:flex-end</p>
    <div class="container end">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
    <p>align-content:space-evenly</p>
    <div class="container evenly">
      <div class="item">1</div>
      <div class="item">2</div>
      <div class="item">3</div>
      <div class="item">4</div>
      <div class="item">5</div>
      <div class="item">6</div>
      <div class="item">7</div>
      <div class="item">8</div>
    </div>
  </div>
</body>
```
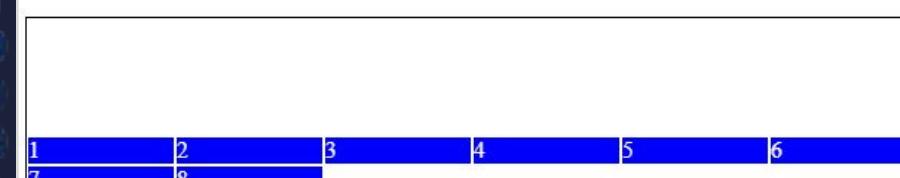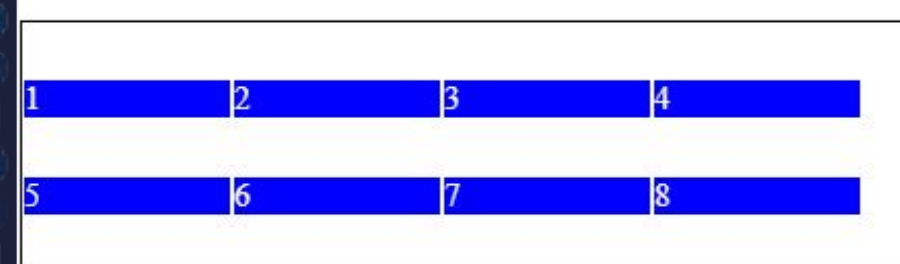
Align-content

```css
.container {
  display: flex;
  flex-wrap: wrap;
  border: 1px solid black;
  color: white;
  height: 15vh;
}
.item {
  width: 100px;
  background-color: blue;
  border: 1px solid;
}
.stretch {
  align-content: stretch;
}
.around {
  align-content: space-around;
}
.between {
  align-content: space-between;
}
.center {
  align-content: center;
}
.start {
  align-content: flex-start;
}
.end {
  align-content: flex-end;
}
.evenly {
  align-content: space-evenly;
}
```

THANK YOU