FLEXBOX

```
<body>
  <div class="bg-primary">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

Docs
Examples
Icons
Themes
Blog

When we are going to use → display : flex (d-flex) all chid div in parent div -→ comes into parent row form single row

```
<body>
  <div class="bg-primary d-flex">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```
<body>
  <div class="bg-primary d-inline-flex">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

When we are using d-inline-flex → it will take the space which it needed -→ compare with above clearly you can understand

Responsive variations also exist for `flex-direction`.

- `.flex-row`
- `.flex-row-reverse`
- `.flex-column`
- `.flex-column-reverse`
- `.flex-sm-row`
- `.flex-sm-row-reverse`
- `.flex-sm-column`
- `.flex-sm-column-reverse`
- `.flex-md-row`
- `.flex-md-row-reverse`
- `.flex-md-column`
- `.flex-md-column-reverse`
- `.flex-lg-row`
- `.flex-lg-row-reverse`
- `.flex-lg-column`
- `.flex-lg-column-reverse`
- `.flex-xl-row`
- `.flex-xl-row-reverse`
- `.flex-xl-column`
- `.flex-xl-column-reverse`
- `.flex-xxl-row`
- `.flex-xxl-row-reverse`
- `.flex-xxl-column`
- `.flex-xxl-column-reverse`

FOR ROWS

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row-reverse">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```
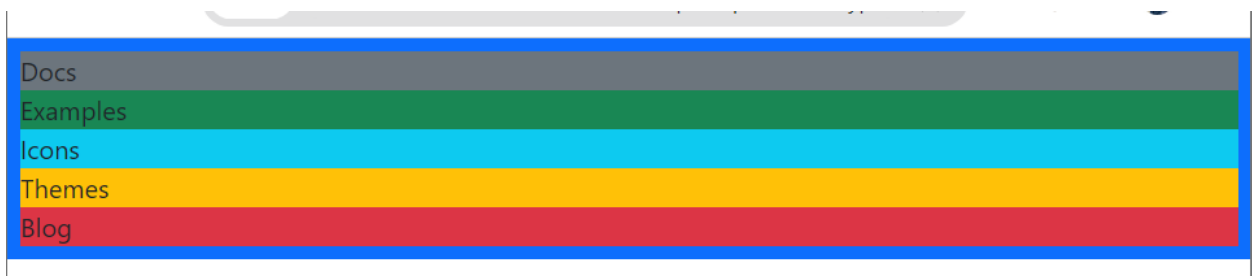
BlogThemesIconsExamplesDocs

FOR COLOUMS

```
<body>
  <div class="bg-primary p-2 d-flex flex-column">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```



```
<body>
  <div class="bg-primary p-2 d-flex flex-column-reverse">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```


Content got reversed

Responsive variations also exist for `justify-content`.

- `.justify-content-start`
- `.justify-content-end`
- `.justify-content-center`
- `.justify-content-between`
- `.justify-content-around`
- `.justify-content-evenly`
- `.justify-content-sm-start`
- `.justify-content-sm-end`
- `.justify-content-sm-center`
- `.justify-content-sm-between`
- `.justify-content-sm-around`
- `.justify-content-sm-evenly`
- `.justify-content-md-start`
- `.justify-content-md-end`
- `.justify-content-md-center`
- `.justify-content-md-between`
- `.justify-content-md-around`
- `.justify-content-md-evenly`
- `.justify-content-lg-start`
- `.justify-content-lg-end`
- `.justify-content-lg-center`
- `.justify-content-lg-between`
- `.justify-content-lg-around`
- `.justify-content-lg-evenly`
- `.justify-content-xl-start`
- `.justify-content-xl-end`
- `.justify-content-xl-center`
- `.justify-content-xl-between`

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-start">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-center">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-end">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-between">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```



```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-evenly">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```



```html
<body>
  <div class="bg-primary p-2 d-flex flex-row justify-content-around">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

Responsive variations also exist for `align-items`.

- `.align-items-start`
- `.align-items-end`
- `.align-items-center`
- `.align-items-baseline`
- `.align-items-stretch`
- `.align-items-sm-start`
- `.align-items-sm-end`
- `.align-items-sm-center`
- `.align-items-sm-baseline`
- `.align-items-sm-stretch`
- `.align-items-md-start`
- `.align-items-md-end`
- `.align-items-md-center`
- `.align-items-md-baseline`
- `.align-items-md-stretch`
- `.align-items-lg-start`
- `.align-items-lg-end`
- `.align-items-lg-center`
- `.align-items-lg-baseline`
- `.align-items-lg-stretch`
- `.align-items-xl-start`
- `.align-items-xl-end`
- `.align-items-xl-center`
- `.align-items-xl-baseline`
- `.align-items-xl-stretch`
- `.align-items-xxl-start`
- `.align-items-xxl-end`
- `.align-items-xxl-center`

```
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-start"
  >
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

DocsExamplesIconsThemesBlog

```
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-center"
  >
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```
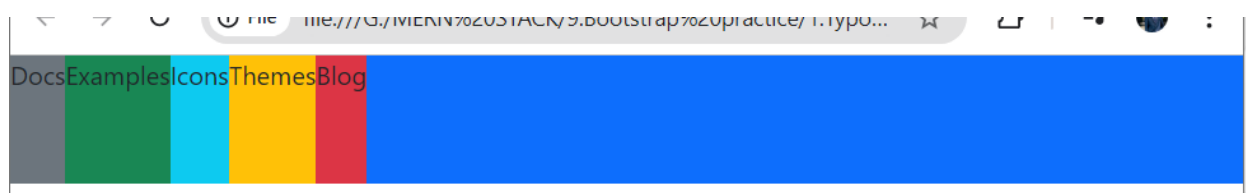
DocsExamplesIconsThemesBlog

```html
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-end"
  >
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```



```html
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-baseline"
  >
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

```
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-stretch"
  >
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

Align self

Use `align-self` utilities on flexbox items to individually

Responsive variations also exist for `align-self`.

- `.align-self-start`
- `.align-self-end`
- `.align-self-center`
- `.align-self-baseline`
- `.align-self-stretch`
- `.align-self-sm-start`
- `.align-self-sm-end`
- `.align-self-sm-center`
- `.align-self-sm-baseline`
- `.align-self-sm-stretch`
- `.align-self-md-start`
- `.align-self-md-end`
- `.align-self-md-center`
- `.align-self-md-baseline`
- `.align-self-md-stretch`
- `.align-self-lg-start`
- `.align-self-lg-end`
- `.align-self-lg-center`
- `.align-self-lg-baseline`
- `.align-self-lg-stretch`

```
<body>
  <div
    style="height: 5rem"
    class="bg-primary d-flex flex-row align-items-start"
  >
    <div class="bg-secondary align-self-start">Docs</div>
    <div class="bg-success align-self-end">Examples</div>
    <div class="bg-info align-self-center">Icons</div>
    <div class="bg-warning align-self-baseline">Themes</div>
    <div class="bg-danger align-self-stretch">Blog</div>
  </div>
</body>
```

flex-grow → flex-grow property used to occupy remaining space -→ we will use flex-grow property for child elements

```
<body>
  <div style="height: 5rem" class="bg-primary d-flex flex-row">
    <div class="bg-secondary d-flex flex-grow-1">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```


All the elements except docs got only length by size of content but docs got remaining space bcoz we used flex-grow-1

```
</head>
  <body>
    <div style="height: 5rem" class="bg-primary d-flex flex-row">
      <div class="bg-secondary d-flex flex-grow-1">Docs</div>
      <div class="bg-success">Examples</div>
      <div class="bg-info d-flex flex-grow-1">Icons</div>
      <div class="bg-warning">Themes</div>
      <div class="bg-danger">Blog</div>
    </div>
  </body>
```

flex-shrink → opposite to flex-grow

```html
<body>
  <div style="height: 5rem" class="bg-primary d-flex flex-row">
    <div class="bg-secondary d-flex flex-shrink-1">Docs</div>
    <div class="bg-success w-100">Examples</div>
    <div class="bg-info w-100">Icons</div>
    <div class="bg-warning w-100">Themes</div>
    <div class="bg-danger w-100">Blog</div>
  </div>
</body>
```
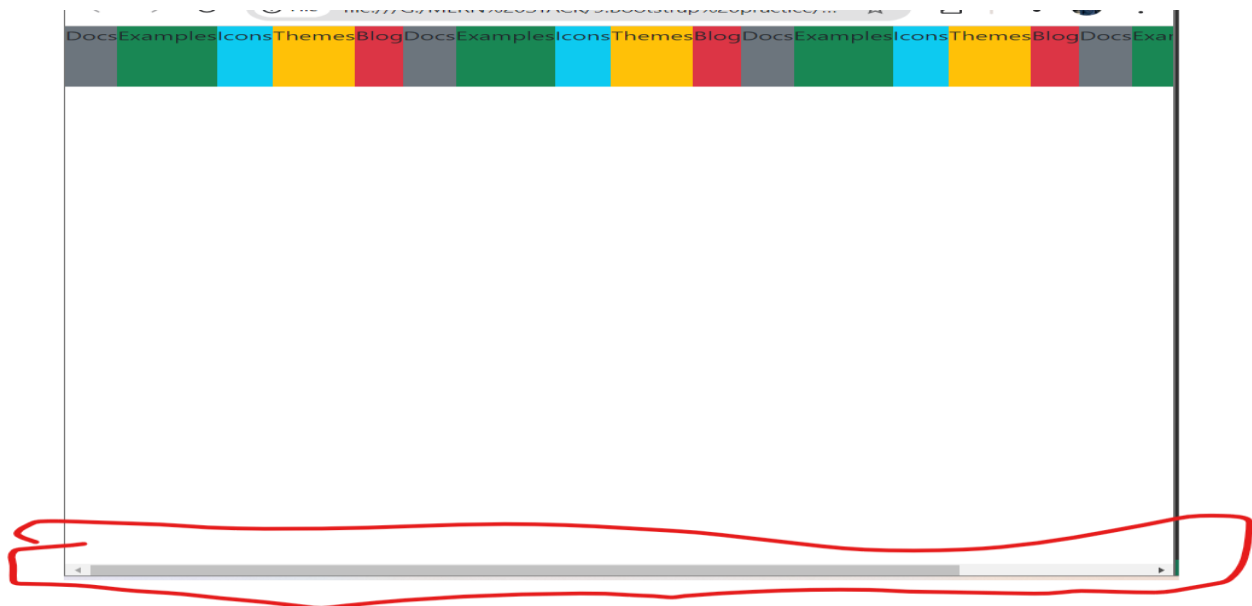
Responsive variations also exist for `flex-wrap`.

- `.flex-nowrap`
- `.flex-wrap`
- `.flex-wrap-reverse`
- `.flex-sm-nowrap`
- `.flex-sm-wrap`
- `.flex-sm-wrap-reverse`
- `.flex-md-nowrap`
- `.flex-md-wrap`
- `.flex-md-wrap-reverse`
- `.flex-lg-nowrap`
- `.flex-lg-wrap`
- `.flex-lg-wrap-reverse`
- `.flex-xl-nowrap`
- `.flex-xl-wrap`
- `.flex-xl-wrap-reverse`
- `.flex-xxl-nowrap`
- `.flex-xxl-wrap`
- `.flex-xxl-wrap-reverse`

```
<body>
  <div style="height: 5rem" class="bg-primary d-flex">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```

here we have given so many-→ so bottom also we got scroll bar → to avoid this we use flex-wrap

```
<body>
  <div style="height: 5rem" class="bg-primary d-flex flex-wrap">
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
    <div class="bg-secondary">Docs</div>
    <div class="bg-success">Examples</div>
    <div class="bg-info">Icons</div>
    <div class="bg-warning">Themes</div>
    <div class="bg-danger">Blog</div>
  </div>
</body>
```


We got automatically down → no scrollbar → and it responsive also

→ flex-nowrap → flex-nowrap used like scrollbar