

Bootstrap framework:-

- External Layout system.
- CSS frameworks created in 2010 by 2 twitter developers.
- efficiency is we can build 12 Column layout system. which makes easy to create responsive websites.
- we don't need to write CSS code. we can only add classes to html.
- Bootstrap is completely opensource.
- Bootstrap and foundation are the popular CSS frameworks. there are lots more too.

Pros of external CSS frameworks:-

- easy and fast to use.
- Good browser Compatibility.

cons of external CSS frameworks:-

- class flow.
- customization.

When to use CSS framework:-

- when we build mobile first responsive websites.
- looks like a professional.

How to use:-

- include via CDN. → Content delivery Network
- <link href="https://..." > include inside <head>
- <script src="..." > include before </body>

⇒ [www.getbootstrap.com](http://www.getbootstrap.com).

- include via CDN, get the link /script.
- link → only CSS file
- script → dropdowns etc..



## Row-major layout:

- interleaving in column-major layout system
- made of 2 components

(1) - div with elements of 1st column

(2) - smaller div with other rows

(3) - smaller div, same rows & columns

## Example:

div with "columns"
div with "rows"
div with "col" = 1000 & /div
</div>
</div>

• Row-major -> AKA for Multiple Columns.

1/2 of screen for 2 cols.

1/2 of screen for 4 cols.

• Container - can be small screen

" - mid - medium screen

also - upper div of Row-major.

• sized Columns:

Col 2 div - occupy 2 column size of 12

• Row-major breakpoints:

sm, md, lg, xl, xxl - refers to screen size.

Example:

col = sm - 2 -> if the screen size is greater than small, the occupy 2 col.

col spans of 12, if the screen size is small, occupy 12 divs.

col sm -> if it is not defined, it is automatically introduced.

• we can also have multiple breakpoints in a single <div>.

eg: 

col = sm - 12 col = md - 8 col = lg - 4
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## Bootstrap Components :-

→ Learn to use pre-built and pre-styled components.

## Bootstrap Button :-

→ Commonly used one

```
<button type="button" class="btn btn-primary">...</button>
```

"btn btn-secondary"

"btn btn-success"

"btn btn-danger"

"btn btn-warning"

"btn btn-info"

"btn btn-light"

"btn btn-dark"

"btn btn-link"

## Bootstrap card :-

```
<div class="card" style="width: 187px;">
  
  <div class="card-body">
    <h5 class="card-title"> card title </h5>
    <p class="card-text"> .... </p>
    <a href="#" class="btn btn-primary"> go somewhere
  </a>
  </div>
</div>
```

## Bootstrap Nav :- [Navigation Bar] :-

→ used to build professional Navigation bars.