Flexbox and Bootstrap

CSS

- Flexbox

Flexible box, commonly referred to as flexbox, is a new layout model introduced in CSS3 for creating the flexible user interface design with multiple rows and columns without using the percentage or fixed length values. The CSS3 flex layout model provides a simple and powerful mechanism for handling the distributing of space and alignment of content automatically through stylesheet without interfering the actual markup.

The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure without using float or positioning.

Parent Element (Container)

Child Elements (Items)

Parent Element (Container)

- ### display

  Specifies the type of box used for an HTML element

- ### align-items

  Vertically aligns the flex items when the items do not use all available space on the cross-axis

- ### justify-content

  Horizontally aligns the flex items when the items do not use all available space on the main-axis

Parent Element (Container) [...continued]

- **flex-direction**

  Specifies the direction of the flexible items inside a flex container

- **flex-wrap**

  Specifies whether the flex items should wrap or not, if there is not enough room for them on one flex line

- **flex-flow**

  A shorthand property for flex-direction and flex-wrap

Child Element (Item)

- **flex-grow**

  Specifies how much a flex item will grow relative to the rest of the flex items inside the same container

- **flex-shrink**

  Specifies how much a flex item will shrink relative to the rest of the flex items inside the same container

- **order**

  Specifies the order of the flex items inside the same container

Bootstrap

- Introduction to Bootstrap

- Why use Bootstrap

- Bootstrap Implementation into website

- Bootstrap Container

- Bootstrap Layout

- Bootstrap Components

- Bootstrap Js Plugin/Widgets

- Bootstrap Utilities

Introduction to Bootstrap

- Bootstrap is a css Framework. Or it is Pre-made HTML/CSS templates classes, javascript widgets & plugin for faster and easier web development .

- Bootstrap includes HTML and CSS based design templates for typography, grid, tooltips, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins

- It is free and open source project.

- There are several css frameworks.

- Bootstrap is the most widely used css framework.

Why use Bootstrap

- Easy to use to Anybody with just basic knowledge of HTML and CSS

- Faster Development

- Responsive features

- Browser compatibility

- Customizable

Bootstrap Implementation into website

- Include Bootstrap 5 from a CDN

- Download Bootstrap 5 from getbootstrap.com

to be contd…

Resources to Study

- https://www.w3schools.com/css/css3_flexbox.asp

- https://www.tutorialrepublic.com/css-tutorial/css3-flexible-box-layouts.php

- https://getbootstrap.com/docs/5.1/utilities/flex/

- https://css-tricks.com/snippets/css/a-guide-to-flexbox/

Assignments for Practice

- Make alignments using flex css

Center me.

Flex item

Aligned flex item

Flex item

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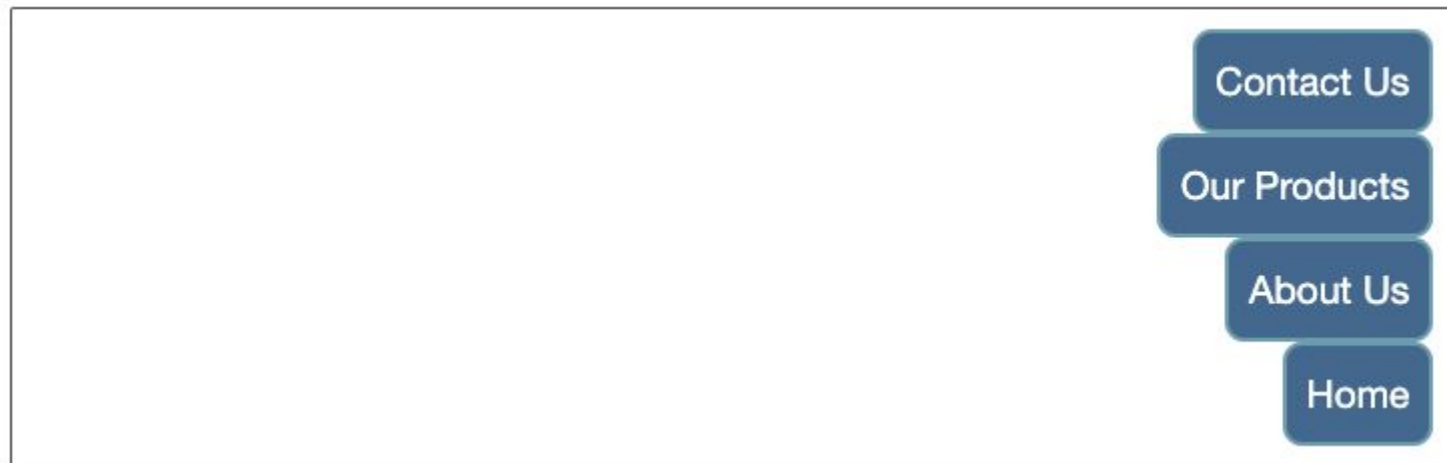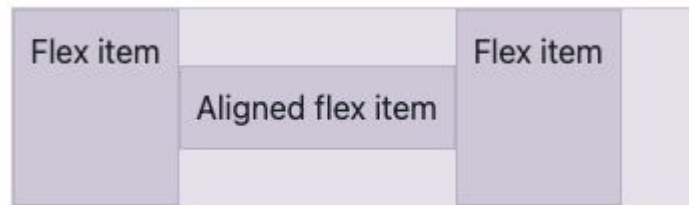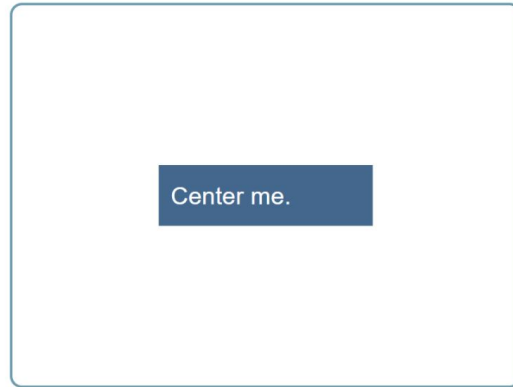
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THANK YOU!!

ANY QUERIES?