

Bootstrap Text/Typography

- Bootstrap uses a default font-size of 1rem (16px by default), and its line-height is 1.5.
- In addition, all `<p>` elements have margin-top: 0 and margin-bottom: 1rem (16px by default).
- `<h1>` - `<h6>` Bootstrap styles HTML headings (`<h1>` to `<h6>`) with a bolder font-weight and a responsive font-size.
- You can also use **.h1 to .h6** classes on other elements to make them behave as headings if you want:
- `<p class="h1">h1 Bootstrap heading</p>`
`<p class="h2">h2 Bootstrap heading</p>`
`<p class="h3">h3 Bootstrap heading</p>`
`<p class="h4">h4 Bootstrap heading</p>`
`<p class="h5">h5 Bootstrap heading</p>`
`<p class="h6">h6 Bootstrap heading</p>`

Display Heading

- Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight), and there are six classes to choose from: **.display-1 to .display-6:**
- `<h1 class="display-1">Display 1</h1>`
- `<h1 class="display-2">Display 2</h1>`
- `<h1 class="display-3">Display 3</h1>`
- `<h1 class="display-4">Display 4</h1>`
- `<h1 class="display-5">Display 5</h1>`
- `<h1 class="display-6">Display 6</h1>`

<small>,<mark>

- <small> element (and the **.small** class) is used to create a smaller, secondary text in any heading:

- <div class="container mt-3">

<h1>h1 heading smallsecondary text</h1>

<h2>h2 heading <small>secondary text</small></h2>

- <mark> and **.mark** with a yellow background color and some padding:

- <div class="container mt-3">


<h1>Highlight Text</h1>

<p>Use the mark element (or the .mark class) to

markhighlight</mark> text.</p>

</div>

<abbr>,<dl>,<code>

- <abbr> element with a dotted border bottom and a cursor with question mark on hover:
 - <p>The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p>
- <dl>
- <code>

The following HTML elements: `span`, `section`, and `div` defines a section in a document.

<kbd>,<pre>

- <kbd> element in the following way:

Use `ctrl + p` to open the Print dialog box.

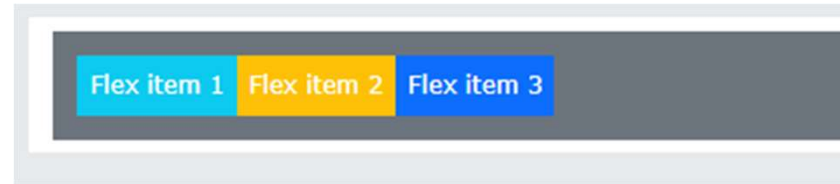
- <pre> element in the following way:

Text in a pre element
is displayed in a fixed-width
font, and it preserves
both spaces and
line breaks.

Class	Description
<code>.lead</code>	Makes a paragraph stand out
<code>.text-start</code>	Indicates left-aligned text
<code>.text-break</code>	Prevents long text from breaking layout
<code>.text-center</code>	Indicates center-aligned text
<code>.text-decoration-none</code>	Removes the underline from a link
<code>.text-end</code>	Indicates right-aligned text
<code>.text-nowrap</code>	Indicates no wrap text
<code>.text-lowercase</code>	Indicates lowercased text
<code>.text-uppercase</code>	Indicates uppercased text
<code>.text-capitalize</code>	Indicates capitalized text
<code>.initialism</code>	Displays the text inside an <code><abbr></code> element in a slightly smaller font size
<code>.list-unstyled</code>	Removes the default list-style and left margin on list items (works on both <code></code> and <code></code>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well)
<code>.list-inline</code>	Places all list items on a single line (used together with <code>.list-inline-item</code> on each <code></code> elements)

Bootstrap Flex-Flexbox

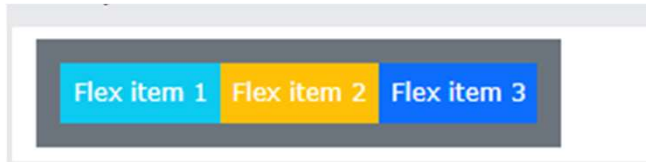
- The biggest difference between Bootstrap 3 and Bootstrap 4 & 5 is that Bootstrap 5 now uses **flexbox, instead of floats**, to handle the layout.
- **The Flexible Box Layout Module**, makes it easier to design flexible responsive layout structure without using float or positioning.
- To create a flexbox container and to transform direct children into flex items, use the **d-flex** class:



```
<div class="d-flex p-3 bg-secondary text-white">  
  <div class="p-2 bg-info">Flex item 1</div>  
  <div class="p-2 bg-warning">Flex item 2</div>  
  <div class="p-2 bg-primary">Flex item 3</div>  
</div>
```

d-inline-flex class:

- To create an inline flexbox container, use the **d-inline-flex** class:



- ```
<div class="d-inline-flex p-3 bg-secondary text-white">
 <div class="p-2 bg-info">Flex item 1</div>
 <div class="p-2 bg-warning">Flex item 2</div>
 <div class="p-2 bg-primary">Flex item 3</div>
</div>
```





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# Justify Content

- Use the **.justify-content-\*** classes to change the alignment of flex items. Valid classes are **start** (default), **end**, **center**, **between** or **around**:
- `<div class="d-flex justify-content-start">...</div>`  
`<div class="d-flex justify-content-end">...</div>`  
`<div class="d-flex justify-content-center">...</div>`  
`<div class="d-flex justify-content-between">...</div>`  
`<div class="d-flex justify-content-around">...</div>`



# Fill / Equal Widths

- Use **.flex-fill** on flex items to force them into equal widths:
- `<div class="d-flex">`
  - `<div class="p-2 bg-info flex-fill">Flex item 1</div>`
  - `<div class="p-2 bg-warning flex-fill">Flex item 2</div>`
  - `<div class="p-2 bg-primary flex-fill">Flex item 3</div>``</div>`

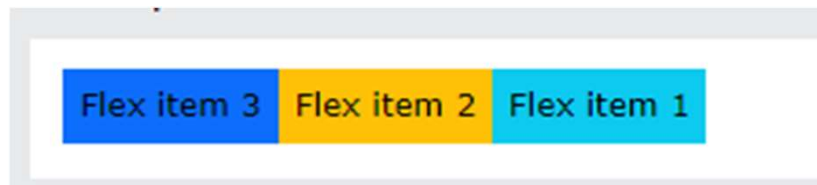
Flex item 1

Flex item 2

Flex item 3

# Order

- Change the visual order of a specific flex item(s) with the **.order** classes. Valid classes are from 0 to 5, where the lowest number has highest priority (order-1 is shown before order-2, etc..):
- `<div class="d-flex bg-secondary">`  
    `<div class="p-2 bg-info order-3">Flex item 1</div>`  
    `<div class="p-2 bg-warning order-2">Flex item 2</div>`  
    `<div class="p-2 bg-primary order-1">Flex item 3</div>`  
    `</div>`



# Bootstrap Forms-Stacked Form

- All textual `<input>` and `<textarea>` elements with class **.form-control** get proper form styling.
- **.form-label** class to each label element to ensure correct padding.
- Checkboxes are wrapped around a container element with **.form-check**
- labels have a class of **.form-check-label**
- checkboxes and radio buttons use **.form-check-input**.

Email:

Password:

☐ Remember me

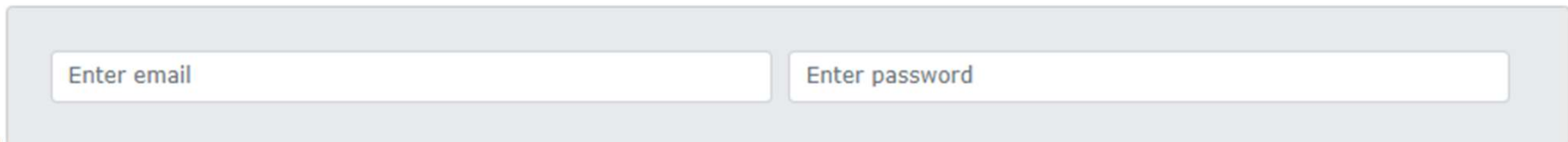
Comments:

# Bootstrap Inline Form

- In an inline form, all of the elements are inline and left-aligned.
- **Note: This only applies to forms within viewports that are at least 576px wide. On screens smaller than 576px, it will stack horizontally.**
- Add class **.form-inline** to the `<form>` element
- ```
<form class="form-inline" action="/action_page.php">  
  <label for="email">Email address:</label>  
  <input type="email" class="form-control" placeholder="Enter email" id="email">  
  <label for="pwd">Password:</label>  
  <input type="password" class="form-control" placeholder="Enter password" id="pwd">  
  <div class="form-check">  
    <label class="form-check-label">  
      <input class="form-check-input" type="checkbox"> Remember me  
    </label>  
  </div>  
  <button type="submit" class="btn btn-primary">Submit</button>  
</form>
```

Form Row/Grid (Inline Forms)

- If you want your form elements to appear side by side, use **.row** and **.col**:
- ```
<form>
 <div class="row">
 <div class="col">
 <input type="text" class="form-control" placeholder="Enter
email" name="email">
 </div>
 <div class="col">
 <input type="password" class="form-control" placeholder="Enter
password" name="pswd">
 </div>
 </div>
</form>
```





# Form Control Size

- You can change the size of `.form-control` inputs with **`.form-control-lg`** or **`.form-control-sm`**:
- `<input type="text" class="form-control form-control-lg" placeholder="Large input">`  
`<input type="text" class="form-control" placeholder="Normal input">`  
`<input type="text" class="form-control form-control-sm" placeholder="Small input">`



The image shows three text input fields stacked vertically, each with a light blue placeholder text. The top field is the largest, the middle field is of standard size, and the bottom field is the smallest. Each field is contained within a light gray border.

# Responsive web design with viewport

- The viewport is the user's visible area of a web page.
- The viewport varies with the device, and will be smaller on a mobile phone than on a computer screen

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

- This gives the browser instructions on how to control the page's dimensions and scaling.
- The **width=device-width** part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).
- The **initial-scale=1.0** part sets the initial zoom level when the page is first loaded by the browser.

# What is a Media Query?

- Media query is a CSS technique introduced in CSS3.
- It uses the `@media` rule to include a block of CSS properties only if a certain condition is true.
- **Example**
- If the browser window is 600px or smaller, the background color will be lightblue:

```
@media only screen and (max-width: 600px) {
 body {
 background-color: lightblue;
 }
}
```

```
<!DOCTYPE html>
```

```
<html><head>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<style>
```

```
body {
```

```
 background-color: lightgreen;
```

```
}
```

```
@media only screen and (max-width: 600px) {
```

```
 body {
```

```
 background-color: lightblue;
```

```
 }</style></head><body>
```

```
<p>Resize the browser window. When the width of this document is 600 pixels or less, the background-color is "lightblue", otherwise it is "lightgreen".</p>
```

```
</body>
```

```
</html>
```