# Bootstrap 4

CREATE SOME AWESOMENESS

# Bootstrap 4

Free front-end framework

HTML and CSS based design templates
- ◦ typography,
- ◦ forms,
- ◦ buttons,
- ◦ tables,
- ◦ navigation,
- ◦ modals, image carousels and many other

# Why use bootstrap

**Easy to use:**

**Responsive features:**

**Mobile-first approach:**

**Browser compatibility:**

# Bootstrap CDN or b4-$ with b4 VC plugin

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<!-- Popper JS -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<!-- Latest compiled JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>
```
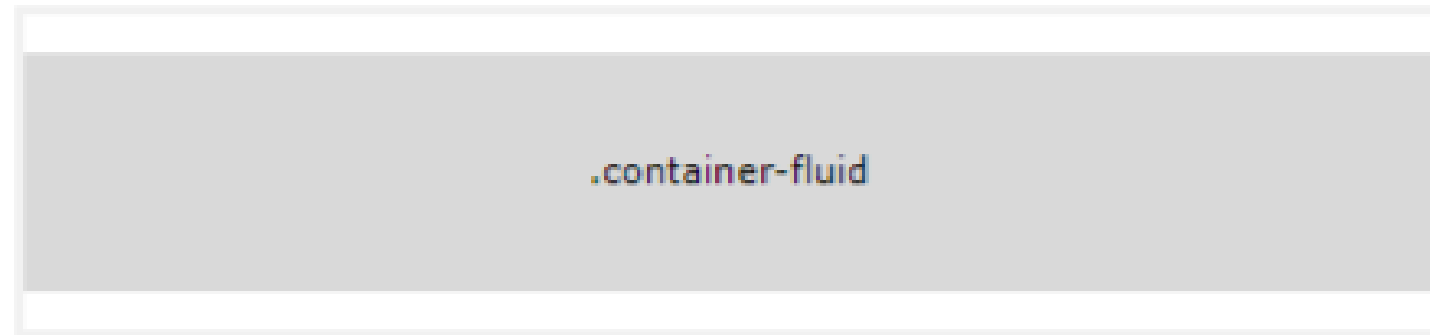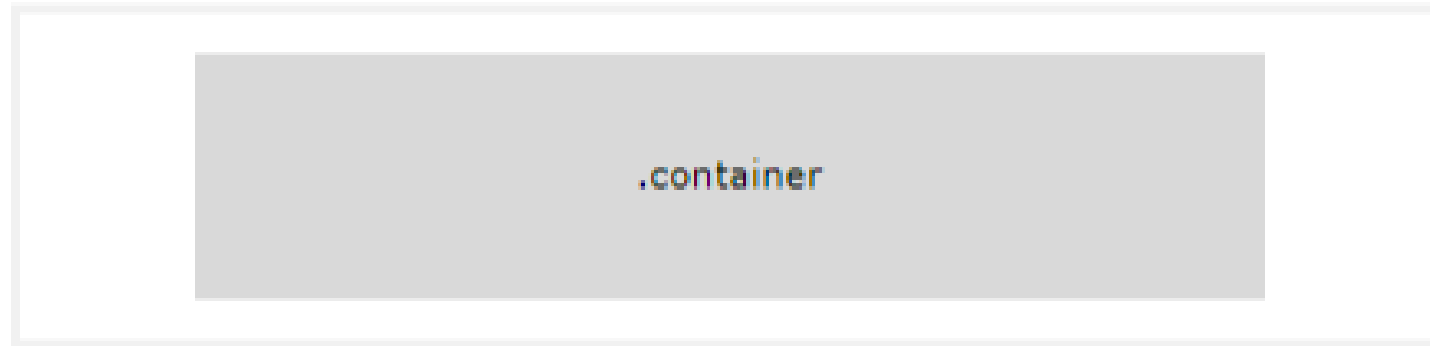
# Containers

.container

.container-fluid

# .container

| | Extra small <576px | Small ≥576px | Medium ≥768px | Large ≥992px | Extra large ≥1200px |
|---|---|---|---|---|---|
| max-width | 100% | 540px | 720px | 960px | 1140px |

# .container .p-3 .my-3 .bg-dark .text-white

## My First Bootstrap Page

This container has a border and some extra padding and margins.

## My First Bootstrap Page

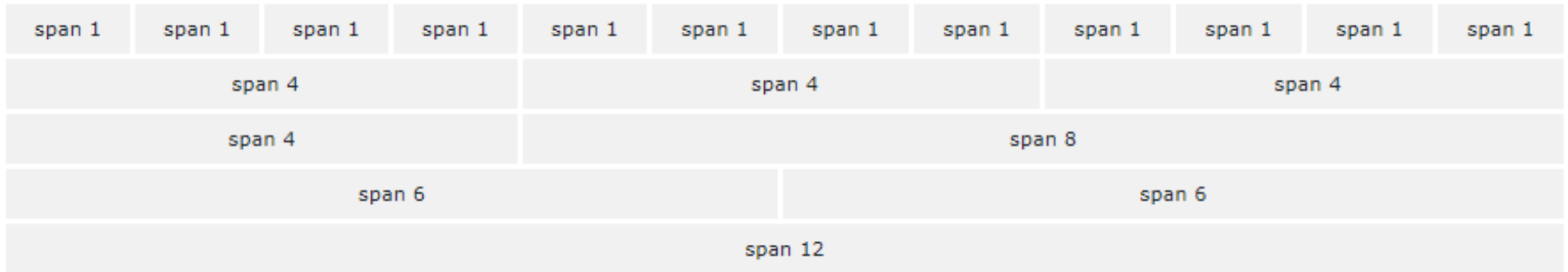This container has a dark background color and a white text, and some extra padding and margins.

## My First Bootstrap Page

This container has a blue background color and a white text, and some extra padding and margins.

# Responsive Containers

| Class | Extra small <576px | Small ≥576px | Medium ≥768px | Large ≥992px | Extra large ≥1200px |
|---|---|---|---|---|---|
| .container-sm | 100% | 540px | 720px | 960px | 1140px |
| .container-md | 100% | 100% | 720px | 960px | 1140px |
| .container-lg | 100% | 100% | 100% | 960px | 1140px |
| .container-xl | 100% | 100% | 100% | 100% | 1140px |

# Bootstrap 4 Grid System

| span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |

| span 4 | span 4 | span 4 |

| span 4 | span 8 |

| span 6 | span 6 |

| span 12 |

# Grid Classes

.col-
- (extra small devices - screen width < 576px)

.col-sm-
- (small devices - screen width => 576px)

.col-md-
- (medium devices - screen width => 768px)

.col-lg-
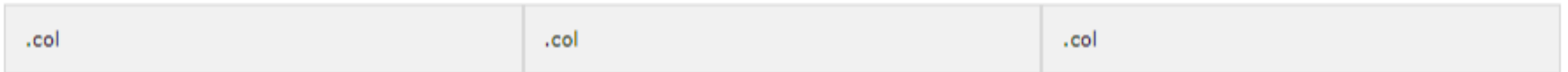- (large devices - screen width => 992px)

.col-xl-
- (xlarge devices - screen width => 1200px)

# Three Equal Columns

```
<div class="row">
  <div class="col">.col</div>
  <div class="col">.col</div>
  <div class="col">.col</div>
</div>
```

| .col | .col | .col |
|------|------|------|

# Responsive Columns

```
<div class="row">
  <div class="col-sm-3">.col-sm-3</div>
  <div class="col-sm-3">.col-sm-3</div>
  <div class="col-sm-3">.col-sm-3</div>
  <div class="col-sm-3">.col-sm-3</div>
</div>
```

**On mobile phones or screens that are less than 576px wide, the columns will automatically stack on top of each other:**

# Un Equal Coloumns

```
<div class="row">
  <div class="col-sm-4">.col-sm-4</div>
  <div class="col-sm-8">.col-sm-8</div>
</div>
```
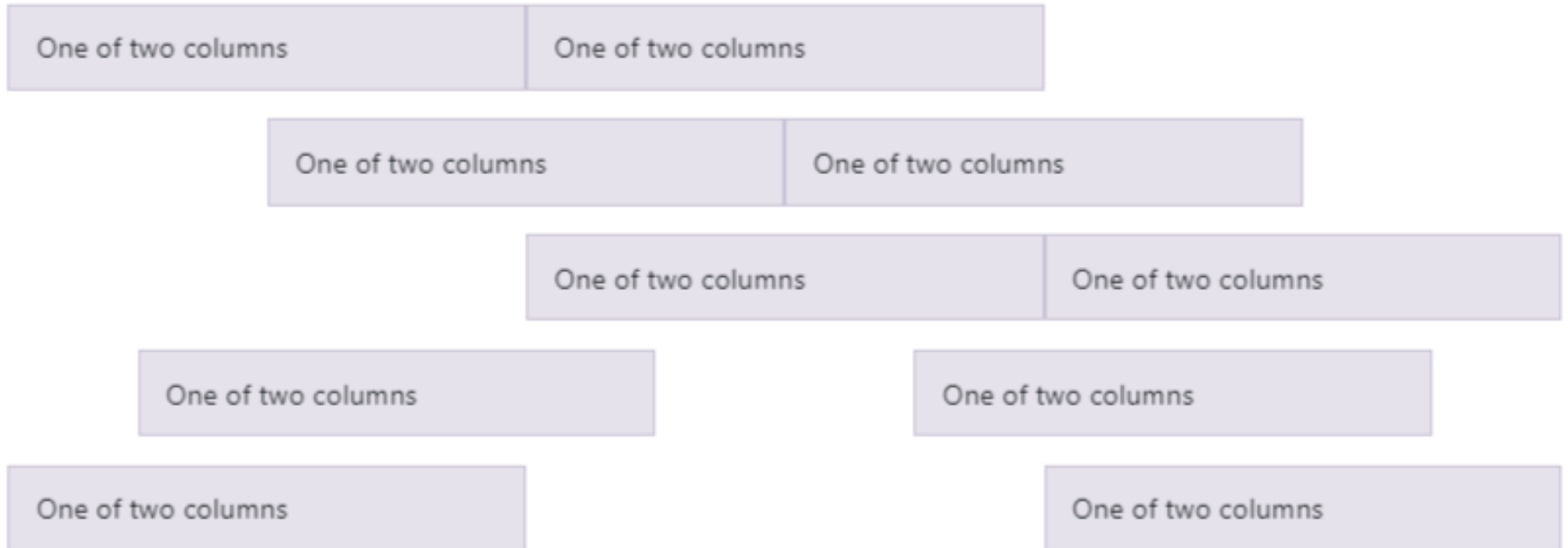
# Built In Responsive

```
<div class="row">
  <div class="col-6 col-md-4">.col-6 .col-md-4</div>
  <div class="col-6 col-md-4">.col-6 .col-md-4</div>
  <div class="col-6 col-md-4">.col-6 .col-md-4</div>
</div>
```

# row align-items-start align-items-center align-items-end

| One of three columns | One of three columns | One of three columns |
|---|---|---|

| One of three columns | One of three columns | One of three columns |
|---|---|---|

| One of three columns | One of three columns | One of three columns |
|---|---|---|

# row justify-content-start ...

# Awesome Colors

.text-muted, .text-primary, .text-success, .text-info, .text-warning, .text-danger, .text-secondary, .text-white, .text-dark, .text-body (default body color/often black) and .text-light

.bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.

# Colors

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

Secondary background color.

Dark grey background color.

Light grey background color.

# .table .table-striped

| Firstname | Lastname | Email |
|-----------|----------|-------|
| John | Doe | john@example.com |
| Mary | Moe | mary@example.com |
| July | Dooley | july@example.com |

# table table-dark table-hover

| Firstname | Lastname | Email |
|-----------|----------|-------|
| John | Doe | john@example.com |
| Mary | Moe | mary@example.com |
| July | Dooley | july@example.com |

# Contextual Classes

| Firstname | Lastname | Email |
| --- | --- | --- |
| Default | Defaultson | def@somemail.com |
| Primary | Joe | joe@example.com |
| Success | Doe | john@example.com |
| Danger | Moe | mary@example.com |
| Info | Dooley | july@example.com |
| Warning | Refs | bo@example.com |
| Active | Activeson | act@example.com |
| Secondary | Secondson | sec@example.com |
| Light | Angie | angie@example.com |
| Dark | Bo | bo@example.com |

# Contextual Classes

| Class | Description |
| --- | --- |
| .table-primary | Blue: Indicates an important action |
| .table-success | Green: Indicates a successful or positive action |
| .table-danger | Red: Indicates a dangerous or potentially negative action |
| .table-info | Light blue: Indicates a neutral informative change or action |
| .table-warning | Orange: Indicates a warning that might need attention |
| .table-active | Grey: Applies the hover color to the table row or table cell |
| .table-secondary | Grey: Indicates a slightly less important action |
| .table-light | Light grey table or table row background |
| .table-dark | Dark grey table or table row background |

# rounded rounded-circle img-thumbnail



Rounded Corners:

Circle:

Thumbnail:

# .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary, .alert-light or .alert-dark:

<div class="alert alert-success">

  <strong>Success!</strong> Indicates a successful or positive action.

</div>

# Buttons: btn btn-primary btn-lg

Basic  Primary  Secondary  Success  Info  Warning  Danger  Dark  Light  Link
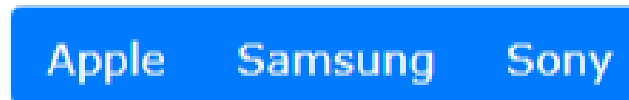
```
<button type="button" class="btn btn-warning">Warning</button>
```

# Button Groups

```html
<div class="btn-group btn-group-lg">
  <button type="button" class="btn btn-primary">Apple</button>
  <button type="button" class="btn btn-primary">Samsung</button>
  <button type="button" class="btn btn-primary">Sony</button>
</div>
```

Large Buttons:

| Apple | Samsung | Sony |

Default Buttons:

| Apple | Samsung | Sony |
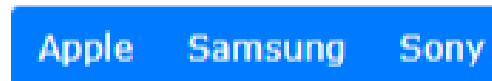
Small Buttons:

| Apple | Samsung | Sony |

# Vertical Button Group w/ Dropdown

```html
<div class="btn-group-vertical">
  <button type="button" class="btn btn-primary">Apple</button>
  <button type="button" class="btn btn-primary">Samsung</button>
  <div class="btn-group">
    <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">
      Sony
    </button>
    <div class="dropdown-menu">
      <a class="dropdown-item" href="#">Tablet</a>
      <a class="dropdown-item" href="#">Smartphone</a>
    </div>
  </div>
</div>
```
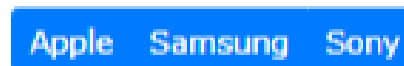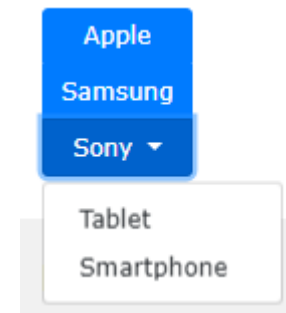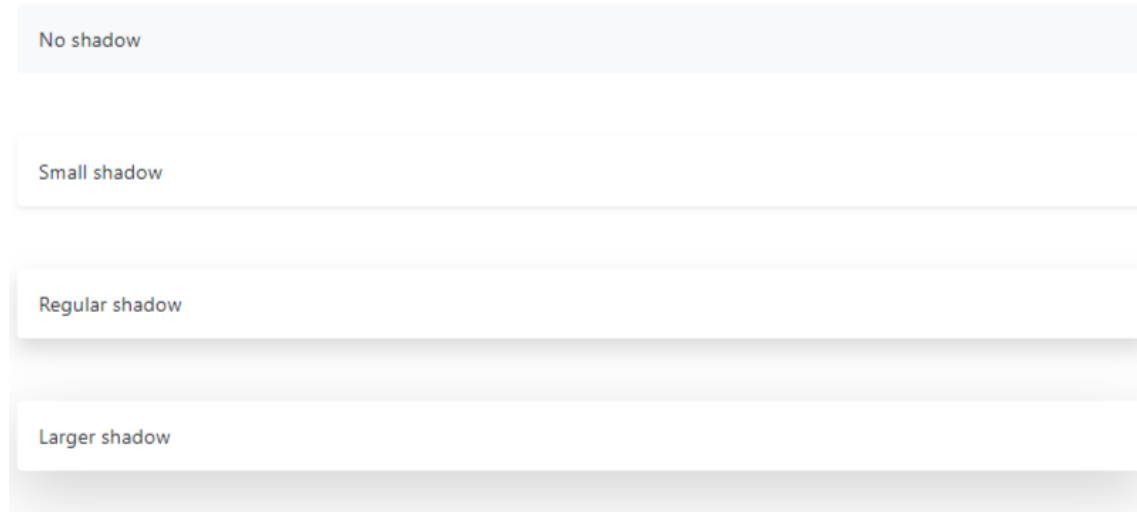
# Border

```
<span class="border border-primary"></span>
<span class="border border-secondary"></span>
<span class="border border-success"></span>
<span class="border border-danger"></span>
<span class="border border-warning"></span>
<span class="border border-info"></span>
<span class="border border-light"></span>
<span class="border border-dark"></span>
<span class="border border-white"></span>
```

# Border Radius

```
<img src="..." alt="..." class="rounded">
<img src="..." alt="..." class="rounded-top">
<img src="..." alt="..." class="rounded-right">
<img src="..." alt="..." class="rounded-bottom">
<img src="..." alt="..." class="rounded-left">
<img src="..." alt="..." class="rounded-circle">
<img src="..." alt="..." class="rounded-pill">
<img src="..." alt="..." class="rounded-0">
```

# Shadows

<div class="shadow-none p-3 mb-5 bg-light rounded">No shadow</div>

<div class="shadow-sm p-3 mb-5 bg-white rounded">Small shadow</div>

<div class="shadow p-3 mb-5 bg-white rounded">Regular shadow</div>

<div class="shadow-lg p-3 mb-5 bg-white rounded">Larger shadow</div>

No shadow

Small shadow

Regular shadow

Larger shadow

# Sizing (m Margin)(p Padding)

t - for classes that set margin-top or padding-top

b - for classes that set margin-bottom or padding-bottom

l - for classes that set margin-left or padding-left

r - for classes that set margin-right or padding-right

x - for classes that set both *-left and *-right

y - for classes that set both *-top and *-bottom

blank - for classes that set a margin or padding on all 4 sides of the element

# Sizing (m Margin)(p Padding)

0 - for classes that eliminate the margin or padding by setting it to 0

1 - (by default) for classes that set the margin or padding to $spacer * .25

2 - (by default) for classes that set the margin or padding to $spacer * .5

3 - (by default) for classes that set the margin or padding to $spacer

4 - (by default) for classes that set the margin or padding to $spacer * 1.5

5 - (by default) for classes that set the margin or padding to $spacer * 3

auto - for classes that set the margin to auto

# Forms

# Forms

```
<form action="/action_page.php">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" placeholder="Enter email" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" placeholder="Enter password" id="pwd">
  </div>
  <div class="form-group 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>
```
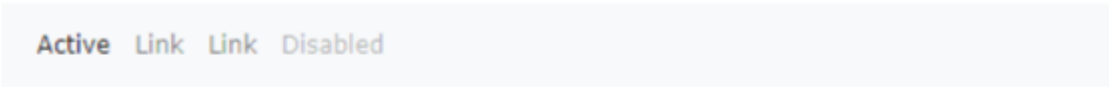
# Inline Form with Utilities



```
<form class="form-inline" action="/action_page.php">
  <label for="email" class="mr-sm-2">Email address:</label>
  <input type="email" class="form-control mb-2 mr-sm-2" placeholder="Enter
email" id="email">
  <label for="pwd" class="mr-sm-2">Password:</label>
  <input type="password" class="form-control mb-2 mr-sm-2" placeholder="Enter
password" id="pwd">
  <div class="form-check mb-2 mr-sm-2">
    <label class="form-check-label">
      <input class="form-check-input" type="checkbox"> Remember me
    </label>
  </div>
  <button type="submit" class="btn btn-primary mb-2">Submit</button>
</form>
```

# NavBar



```html
<!-- Grey with black text -->
<nav class="navbar navbar-expand-sm bg-light navbar-light">
  <ul class="navbar-nav">
    <li class="nav-item active">
      <a class="nav-link" href="#">Active</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>
</nav>
<!-- Black with white text -->
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">...</nav>
<!-- Blue with white text -->
<nav class="navbar navbar-expand-sm bg-primary navbar-dark">...</nav>
```

# FontAwesome 🕐 🕐

https://fontawesome.com/start

Get your js from here

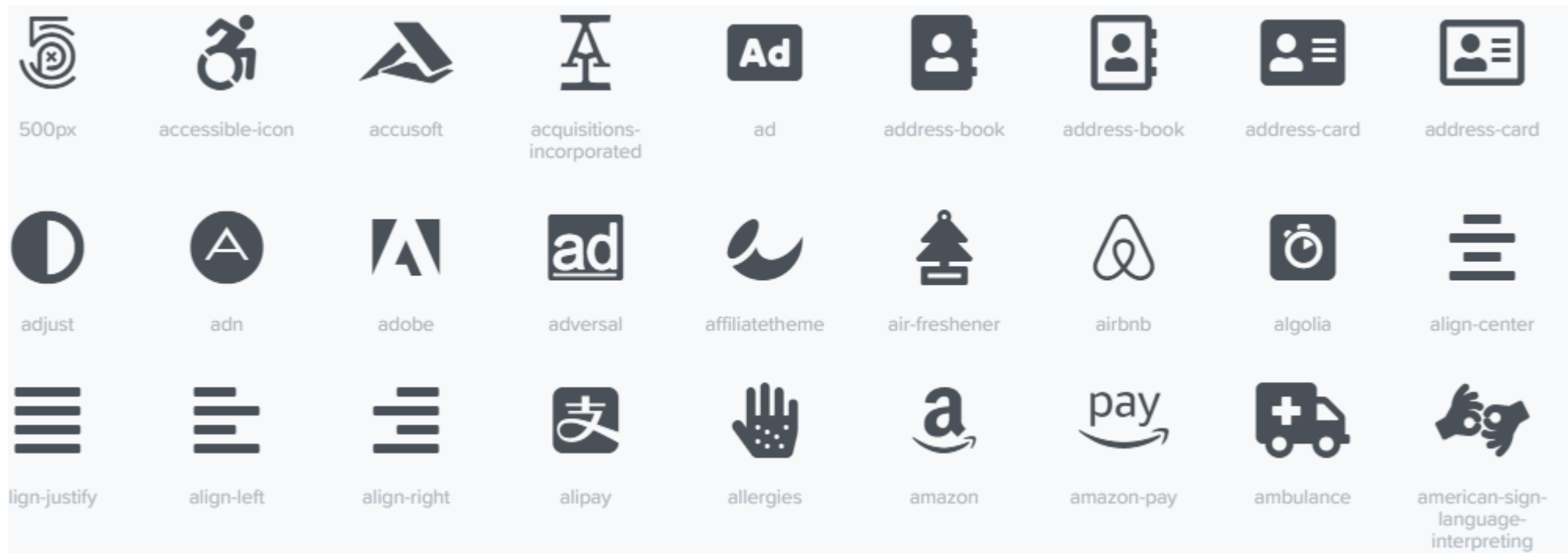<script src="https://kit.fontawesome.com/a076d05399.js"></script>

And use something like this

```
<i class="fas fa-clock"></i>
<i class="far fa-clock"></i>
```

# Some Icons

# Explore Yourself

https://getbootstrap.com/

https://www.w3schools.com/bootstrap4/default.asp