



# Web Programming

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# Font Awesome and Bootstrap

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Font Awesome

# Font Awesome

Font Awesome gives you **scalable vector icons** that can instantly be customized

- Size
- Color
- Drop shadow
- and anything that can be done with the power of CSS

# Font Awesome

- Link CSS: <https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css>
- Link Icon list: <https://fontawesome.com/v4.7.0/icons/>
- How to use:
  - Basic Icons
  - Larger Icons
  - Fixed Width Icons
  - List Icons
  - Bordered & Pulled Icons
  - Animated Icons
  - Rotated & Flipped
  - Stacked Icons



# Font Awesome

## Example

### ▪ Basic and larger Icons

 fa-camera-retro

 fa-lg

 fa-2x

 fa-3x

 fa-4x

 fa-5x

```
<i class="fa fa-camera-retro"></i> fa-camera-retro  
<i class="fa fa-camera-retro fa-lg"></i> fa-lg  
<i class="fa fa-camera-retro fa-2x"></i> fa-2x  
<i class="fa fa-camera-retro fa-3x"></i> fa-3x  
<i class="fa fa-camera-retro fa-4x"></i> fa-4x  
<i class="fa fa-camera-retro fa-5x"></i> fa-5x
```

# Font Awesome

## Example

### ▪ List Icons

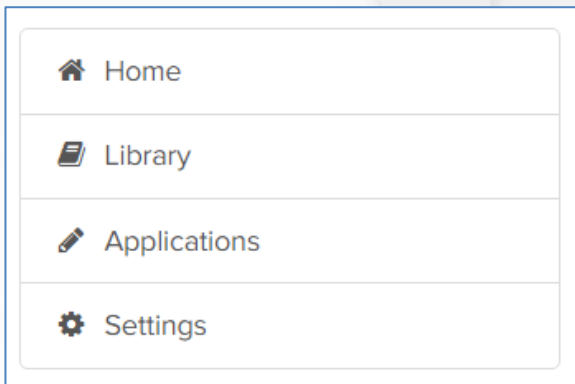
- ☒ List icons
- ☒ can be used
- ☐ as bullets
- ☐ in lists

```
<ul class="fa-ul">  
  <li><i class="fa-li fa fa-check-square"></i>List icons</li>  
  <li><i class="fa-li fa fa-check-square"></i>can be used</li>  
  <li><i class="fa-li fa fa-spinner fa-spin"></i>as bullets</li>  
  <li><i class="fa-li fa fa-square"></i>in lists</li>  
</ul>
```



# Font Awesome

## ▪ Fixed Width Icons



```
<div class="list-group">
  <a class="list-group-item" href="#">
    <i class="fa fa-home fa-fw" aria-hidden="true"></i> Home
  </a>
  <a class="list-group-item" href="#">
    <i class="fa fa-book fa-fw" aria-hidden="true"></i> Library
  </a>
  <a class="list-group-item" href="#">
    <i class="fa fa-pencil fa-fw" aria-hidden="true"></i> Applications
  </a>
  <a class="list-group-item" href="#">
    <i class="fa fa-cog fa-fw" aria-hidden="true"></i> Settings
  </a>
</div>
```

# Font Awesome

## CSS Pseudo-elements

Visit Font awesome cheatsheet page and get Unicode of icon.

Link: <https://fontawesome.com/v4/cheatsheet/>

✓ fa-angle-down [`&#xf107`;

> fa-angle-right [`&#xf105`;

Style:

```
.nav li::after {  
    font-family: "fontawesome";  
    content: "\f107";  
}
```



## 2. Bootstrap

Source: <https://getbootstrap.com/docs/4.6/getting-started/introduction/>

# Bootstrap

- Build **responsive**, mobile-first projects on the web
- Be an open-source toolkit for developing with HTML, CSS, and JS:
  - responsive **grid system**,
  - extensive **prebuilt components**,
  - and **powerful plugins** built on jQuery

# Bootstrap Starter template and BootstrapCDN

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/
bootstrap.min.css" crossorigin="anonymous">

    <title>Bootstrap</title>
  </head>
  <body>
    <!-- Your code -->

    <script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/
bootstrap.bundle.min.js" crossorigin="anonymous"></script>
  </body>
</html>
```

# Components and Utilities

Link:

- <https://getbootstrap.com/docs/4.6/components/>
- <https://getbootstrap.com/docs/4.6/utilities/>



# Components and Utilities

## Example

- Outline buttons



```
<button type="button" class="btn btn-outline-primary">Primary</button>  
<button type="button" class="btn btn-outline-secondary">Secondary</button>  
<button type="button" class="btn btn-outline-success">Success</button>  
<button type="button" class="btn btn-outline-danger">Danger</button>  
<button type="button" class="btn btn-outline-warning">Warning</button>  
<button type="button" class="btn btn-outline-info">Info</button>  
<button type="button" class="btn btn-outline-light">Light</button>  
<button type="button" class="btn btn-outline-dark">Dark</button>
```



# Summary





**Q&A**