Bootstrap Framework

What is BOOTSTRAP?

- **❖** Bootstrap is a free front-end framework for faster and easier web development
- *Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- *Bootstrap also gives you the ability to easily create responsive designs

What is Responsive Web Design?

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

Bootstrap Versions

- Bootstrap 5 (released 2021) is the newest version of Bootstrap (released 2013); with new components, faster stylesheet and more responsiveness.
- ➤ Bootstrap 5 supports the latest, stable releases of all major browsers and platforms. However, Internet Explorer 11 and down is not supported.
- The main differences between Bootstrap 5 and Bootstrap 3 & 4, is that Bootstrap 5 has switched to vanilla JavaScript instead of jQuery.

Why Use Bootstrap?

- ✓ Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- ✓ Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- ✓ Mobile-first approach: In Bootstrap, mobile-first styles are part of the core framework
- ✓ Browser compatibility: Bootstrap 5 is compatible with all modern browsers (Chrome, Firefox, Edge, Safari, and Opera).

Where to Get Bootstrap 5?

There are two ways to start using Bootstrap 5 on your own web site.

You can:

- ❖ Include Bootstrap 5 from a CDN
- Download Bootstrap 5 from getbootstrap.com

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```
k href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet">
```

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.
min.js"></script>

Containers

There are two container classes to choose from:

- ✓ The .container class provides a responsive fixed width container.
- ✓ The .container-fluid class provides a full width container, spanning the entire width of the viewport.

.container .container-fluid

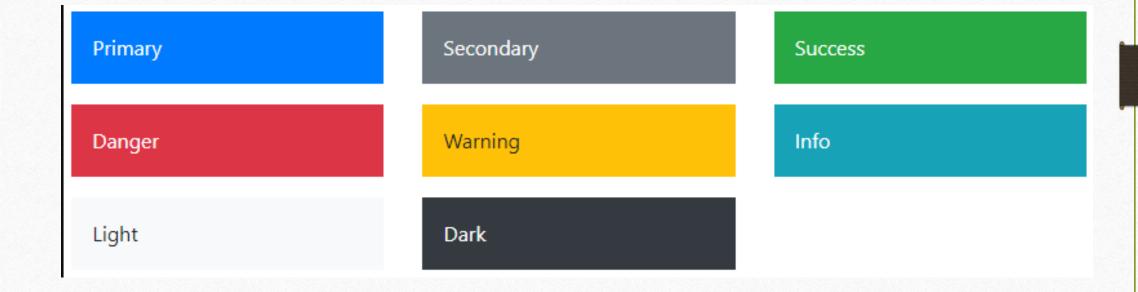
Responsive Containers

You can also use the .container-sm[md]lg[xl] classes to determine when the container should be responsive.

The max-width of the container will change on different screen sizes/viewports:

Class	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px	XXL ≥1400px
.container-sm	100%	540px	720px	960px	1140px	1320px
.container-md	100%	100%	720px	960px	1140px	1320px
.container-lg	100%	100%	100%	960px	1140px	1320px
.container-xl	100%	100%	100%	100%	1140px	1320px
.container-xxl	100%	100%	100%	100%	100%	1320px

1. Color – Utilities



Background-color (.bg-colorname)

2.

.bg-primary .bg-secondary .bg-success .bg-warning .bg-info .bg-danger .bg-dark .bg-light .bg-body .bg-white .bg-transparent

Border (.border)

```
<span class="border"></span>
<span class="border-top"></span>
<span class="border-end"></span>
<span class="border-bottom"></span>
<span class="border-start"></span>
```

Border color (.border-color)

```
<span class="border border-primary"></span>
<span class="border border-primary-subtle"></span>
<span class="border border-secondary"></span>
<span class="border border-secondary-subtle"></span>
<span class="border border-success"></span>
<span class="border border-success"></span>
<span class="border border-success-subtle"></span>
<span class="border border-danger"></span>
```

Border width (.border-width)

```
<span class="border border-1"></span>
<span class="border border-2"></span>
<span class="border border-3"></span>
<span class="border border-4"></span>
<span class="border border-5"></span>
```

Border radius (.border-radius)

6. 75x75 75x75 75x75 75x75 75x75 75x75

```
<img src="..." class="rounded" alt="...">
<img src="..." class="rounded-top" alt="...">
<img src="..." class="rounded-end" alt="...">
<img src="..." class="rounded-bottom" alt="...">
<img src="..." class="rounded-start" alt="...">
<img src="..." class="rounded-circle" alt="...">
<img src="..." class="rounded-circle" alt="..."></img src="..." class="rounded-pill" alt="...">
```

Sizing(width[.w])

```
Width 50%
Width 75%
Width 100%
Width auto
```

```
<div class="w-25 p-3">Width 25%</div>
<div class="w-50 p-3">Width 50%</div>
<div class="w-75 p-3">Width 75%</div>
<div class="w-100 p-3">Width 100%</div>
<div class="w-auto p-3">Width auto</div>
```

Sizing(height[.h])

```
Height 25% Height 50% Height 75% Height 100% Height auto
```

Spacing - (Margin and padding)

8.

Where *property* is one of:

- m for classes that set margin
- p for classes that set padding

Where sides is one of:

- t for classes that set margin-top or padding-top
- b for classes that set margin-bottom or padding-bottom
- s (start) for classes that set margin-left or padding-left in LTR, margin-right or padding-right in RTL
- e (end) for classes that set margin-right or padding-right in LTR, margin-left or padding-left in RTL
- x for classes that set both *-left and *-right
- y for classes that set both *-top and *-bottom

Text alignment

Start aligned text on all viewport sizes.

Center aligned text on all viewport sizes.

End aligned text on all viewport sizes.

```
Start aligned text on all viewport sizes.
Center aligned text on all viewport sizes.
End aligned text on all viewport sizes.
```

Text transform

10.

lowercased text.

UPPERCASED TEXT.

CapiTaliZed Text.

```
Lowercased text.
Uppercased text.
CapiTaliZed text.
```

Grid System

Column Column Column

Responsive classes -:

Bootstrap's grid includes six tiers of predefined classes for building complex responsive layouts. Customize the size of your columns on extra small, small, medium, large, or extra large devices however you see fit.

All breakpoints -:

For grids that are the same from the smallest of devices to the largest, use the .col and .col-* classes. Specify a numbered class when you need a particularly sized column; otherwise, feel free to stick to .col.

col	col	col	col
		col-4	

Responsive Layout using Bootstrap

