

Bootstrap

🕒 작성일시	@2022년 8월 3일 오전 10:32
☰ 내용	Bootstrap CSS HTML 웹
▼ 주차	3주차
📎 자료	

Bootstrap의 기본 원리

spacing(Margin and padding)

`{property}{sides}-{size}`

`mt-3`

```
<div class="mt-3 ms-5">bootstrap-spacing</div>
```

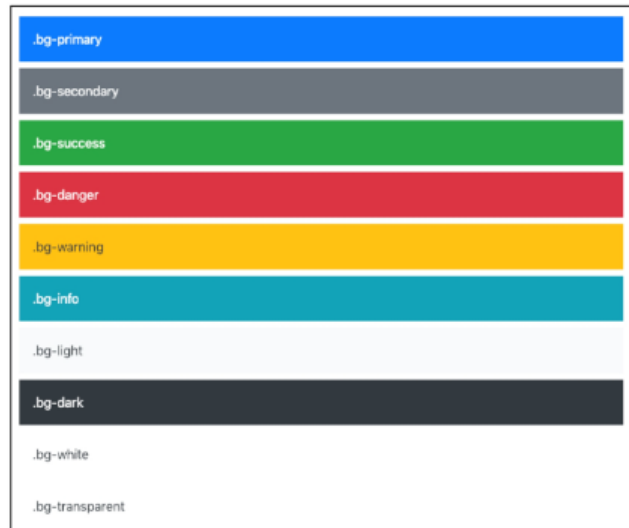
m	margin
p	padding

t	top
b	bottom
s	left
e	right
x	left, right
y	top, bottom

0	0 rem	0px
1	0.25 rem	4px
2	0.5 rem	8px
3	1 rem	16px
4	1.5 rem	24px
5	3 rem	48px

color

```
:root {
  --primary: #007bff;
  --secondary: #6c757d;
  --success: #28a745;
  --info: #17a2b8;
  --warning: #ffc107;
  --danger: #dc3545;
  --light: #f8f9fa;
  --dark: #343a40;
}
```



text

Text

Start aligned text on all viewport sizes.

Center aligned text on all viewport sizes.

End aligned text on all viewport sizes.

[Non-underlined link](#)

Bold text.

Normal weight text.

Light weight text.

Italic text.

```
<h2>Text</h2>
<p class="text-start">margin-top 3</p>
<p class="text-center">margin 4</p>
<p class="text-end">mx-auto, 가운데 정렬</p>
<a href="#" class="text-decoration-none">Non-underlined link</a>
<p class="fw-bold">Bold text.</p>
<p class="fw-normal">Normal weight text.</p>
<p class="fw-light">Light weight text.</p>
<p class="fst-italic">Italic text.</p>
```

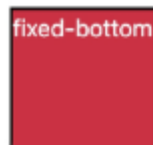
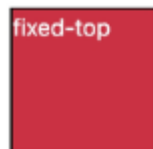
display

Display



```
<h2>Display</h2>
<div class="d-inline p-2 bg-primary text-white">d-inline</div>
<div class="d-inline p-2 bg-dark text-white">d-inline</div>
<div class="d-block p-2 bg-dark text-white">d-inline</div>
<div class="d-block p-2 bg-primary text-white">d-inline</div>
<div class="box bg-warning d-sm-none d-md-block">보이나?? 안보이나??</div>
<div class="box bg-success d-md-none d-xl-block">보이나?? 안보이나??</div>
```

position



```
<h2>Position</h2>
<div class="box fixed-top">fixed-top</div>
<div class="box fixed-bottom">fixed-bottom</div>
```

Bootstrap의 component

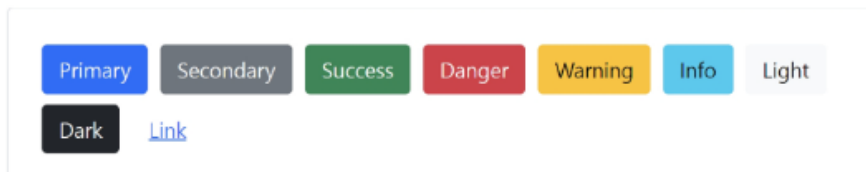
Buttons

- 클릭했을 때 어떤 동작이 일어나도록 하는 요소

```

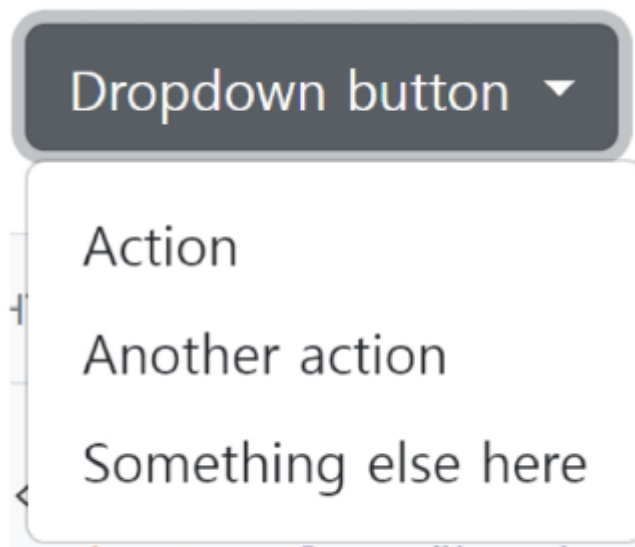
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning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

```



Dropdowns

- dropdown, dropdown-menu, dropdown-item 클래스를 활용해 옵션 메뉴를 만들 수 있습니다.



```

<div class="dropdown">
  <button class="btn btn-secondary dropdown-toggle" type="button" data-bs-toggle="dropdown" aria-
  expanded="false">
    Dropdown button
  </button>
  <ul class="dropdown-menu">
    <li><a class="dropdown-item" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Another action</a></li>
    <li><a class="dropdown-item" href="#">Something else here</a></li>
  </ul>
</div>

```

Forms > Form controls

- form-control 클래스를 사용해 <input> 및 <form>태그를 스타일링 할 수 있습니다.

Email address

Example textarea

```
<div class="mb-3">
  <label for="exampleFormControlInput1" class="form-label">Email address</label>
  <input type="email" class="form-control" id="exampleFormControlInput1"
placeholder="name@example.com">
</div>
<div class="mb-3">
  <label for="exampleFormControlTextarea1" class="form-label">Example textarea</label>
  <textarea class="form-control" id="exampleFormControlTextarea1" rows="3"></textarea>
</div>
```

Navbar

- navbar 클래스를 활용하면 네비게이션 바를 제작할 수 있습니다.

Navbar Home Link

```

<nav class="navbar navbar-expand-lg bg-light">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"
    aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link</a>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

Carousel

- 콘텐츠(사진)을 순환시키기 위한 슬라이드쇼



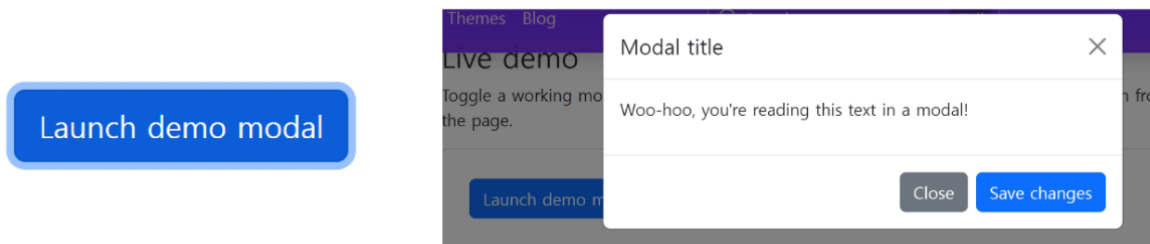
```

<div id="carouselExampleSlidesOnly" class="carousel slide" data-bs-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
</div>

```

Modal

- 사용과 상호작용 하기 위해서 사용하며, 긴급상황을 알리는 데 주로 사용
- 현재 열려 있는 페이지 위에 또 다른 레이어를 띄움
- 페이지를 이동하면 자연스럽게 사라짐(제거를 하지 않고도 배경 클릭 시 사라짐)



```
<!-- Button trigger modal -->
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#exampleModal">
  Launch demo modal
</button>

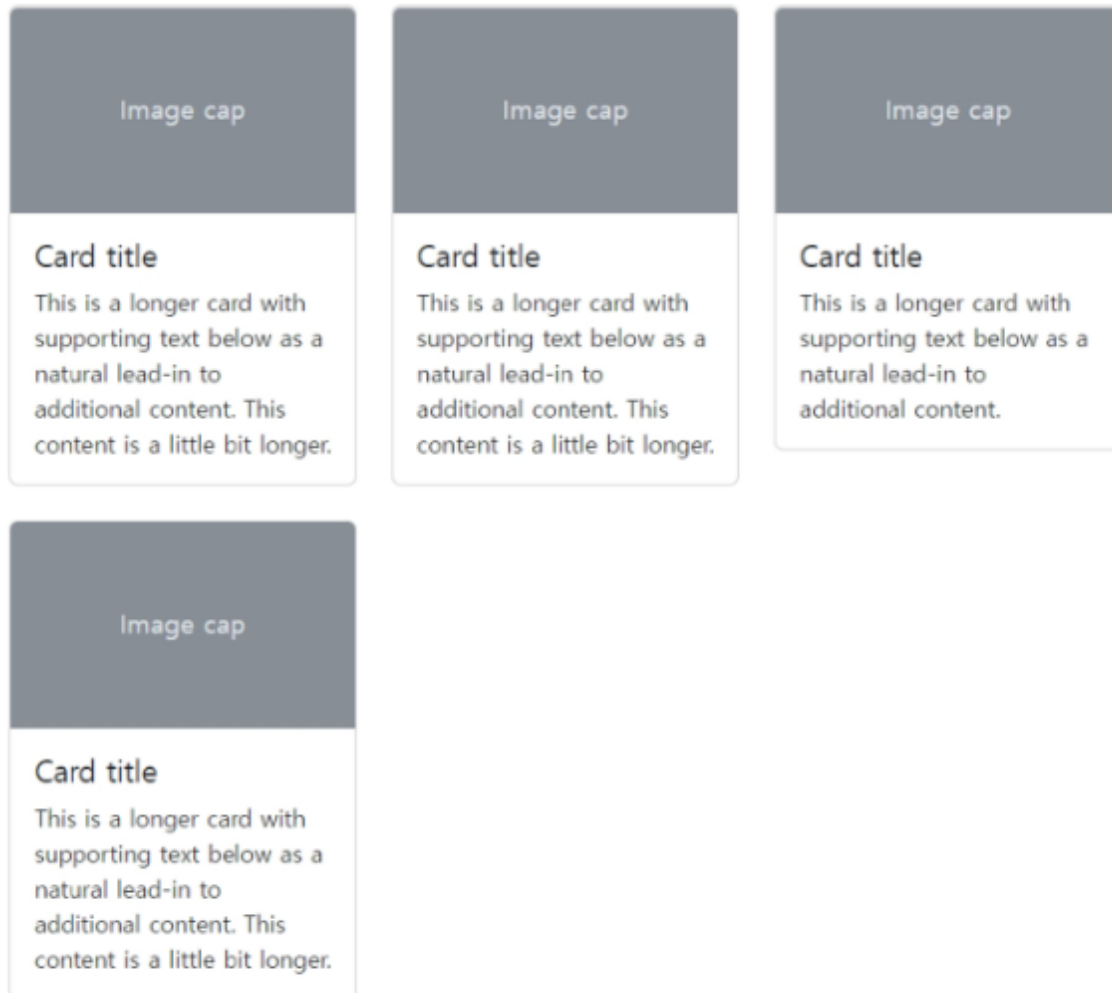
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="exampleModalLabel">Modal title</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        ...
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary">Save changes</button>
      </div>
    </div>
  </div>
</div>
```

Flexbox in Bootstrap

```
<div class="d-flex justify-content-start">...</div>
<div class="d-flex align-items-start">...</div>
<div class="d-flex">
  <div class="align-self-start">Aligned flex item</div>
</div>
```

Card > Grid Card

- 화면이 작아지면 1줄에 표시되는 카드의 개수가 줄어든다.




```

<div class="row row-cols-1 row-cols-md-3 g-4">
  <div class="col">
    <div class="card">
      
      <div class="card-body">
        <h5 class="card-title">Card title</h5>
        <p class="card-text">This is a longer card with supporting text below</p>
      </div>
    </div>
  </div>
  <div class="col">
    <div class="card">
      
      <div class="card-body">
        <h5 class="card-title">Card title</h5>
        <p class="card-text">This is a longer card with supporting text below</p>
      </div>
    </div>
  </div>
  ...

```

Responsive Web Design

- 다양한 화면 크기를 가진 디바이스들이 등장함에 따라 반응형 웹 디자인 개념이 등장
- 반응형 웹은 기술 이름이 아닌 웹 디자인에 대한 접근 방식, 반응형 레이아웃 작성에 도움이 되는 사례들의 모음 등을 기술하는데 사용되는 용어
- 예시
 - Media Queries, Bootstrap Grid System, The viewport meta tag