
Utilities

Bootstrap4 Utilities

❖ .border, .border-*-*

```
<span class="border"></span>  
<span class="border border-0"></span>  
<span class="border border-top-0"></span>  
<span class="border border-right-0"></span>  
<span class="border border-bottom-0"></span>  
<span class="border border-left-0"></span>
```



Bootstrap4 Utilities

❖ .border-<context>

```
<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>
```



Bootstrap4 Utilities

❖ .rounded, .rounded-*

```
<span class="rounded-sm"></span>  
<span class="rounded"></span>  
<span class="rounded-lg"></span>
```

```
<span class="rounded-top"></span>  
<span class="rounded-right"></span>  
<span class="rounded-bottom"></span>  
<span class="rounded-left"></span>
```

```
<span class="rounded-circle"></span>  
<span class="rounded-0"></span>
```



Bootstrap4 Utilities

❖ .clearfix, .float-left, .float-right

```
<div class="clearfix">  
  <span class="float-left">Float left</span>  
  <span class="float-right">Float right</span>  
</div>
```


Float left

Float right

Bootstrap4 Utilities

❖ .mx-auto : 중앙 정렬

```
<div class="mx-auto bg-warning" style="width:150px">Centered</div>
```



Centered

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❖ .w-25, .w-50, .w-75, .w-100, .mw-100

```
<div class="w-25 bg-warning">Width 25%</div>  
<div class="w-50 bg-warning">Width 50%</div>  
<div class="w-75 bg-warning">Width 75%</div>  
<div class="w-100 bg-warning">Width 100%</div>  
<div class="mw-100 bg-warning">Max Width 100%</div>
```

Width 25%

Width 50%

Width 75%

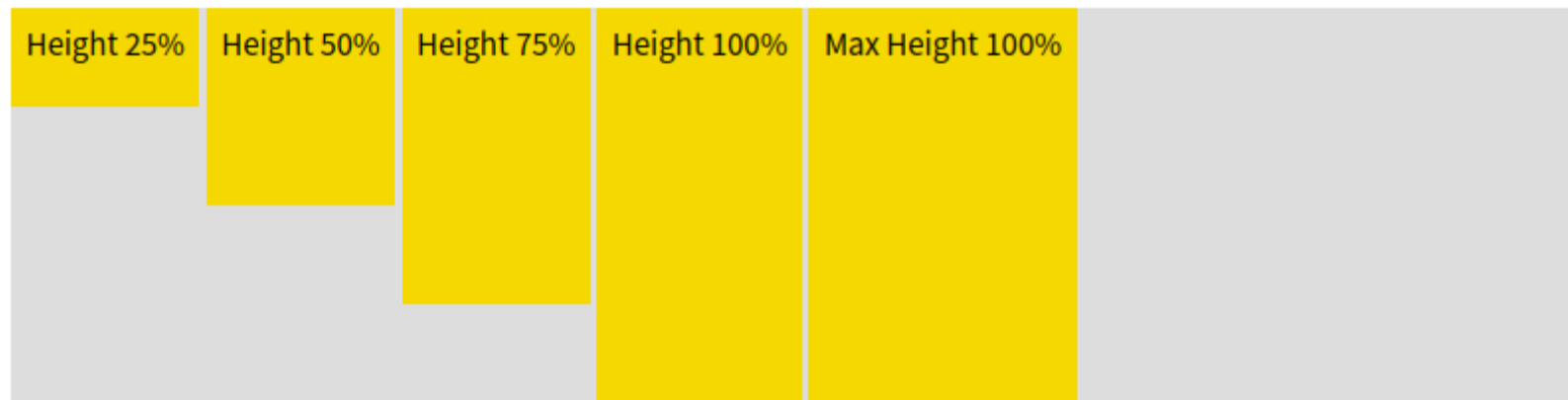
Width 100%

Max Width 100%

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❖ .h-25, .h-50, .h-75, .h-100, .mh-100

```
<div style="height:200px;background-color:#ddd">  
  <div class="h-25 bg-warning">Height 25%</div>  
  <div class="h-50 bg-warning">Height 50%</div>  
  <div class="h-75 bg-warning">Height 75%</div>  
  <div class="h-100 bg-warning">Height 100%</div>  
  <div class="mh-100 bg-warning" style="height:500px">  
    Max Height 100%</div>  
</div>
```



❖ spacing

- m : margin
- p : padding
- x, y, t, b, l, r
- 0 : 0
- 1 : .25rem (4px)
- 2 : .5rem (8px)
- 3 : 1rem (16px)
- 4 : 1.5rem (24px)
- 5 : 3rem (48px)
- n1 : -.25rem (-4px)
- n2 : -.5rem (-8px)
- n3 : -1rem (-16px)
- n4 : -1.5rem (-24px)
- n5 : -3rem (-48px)
- auto

Bootstrap4 Utilities

❖ spacing

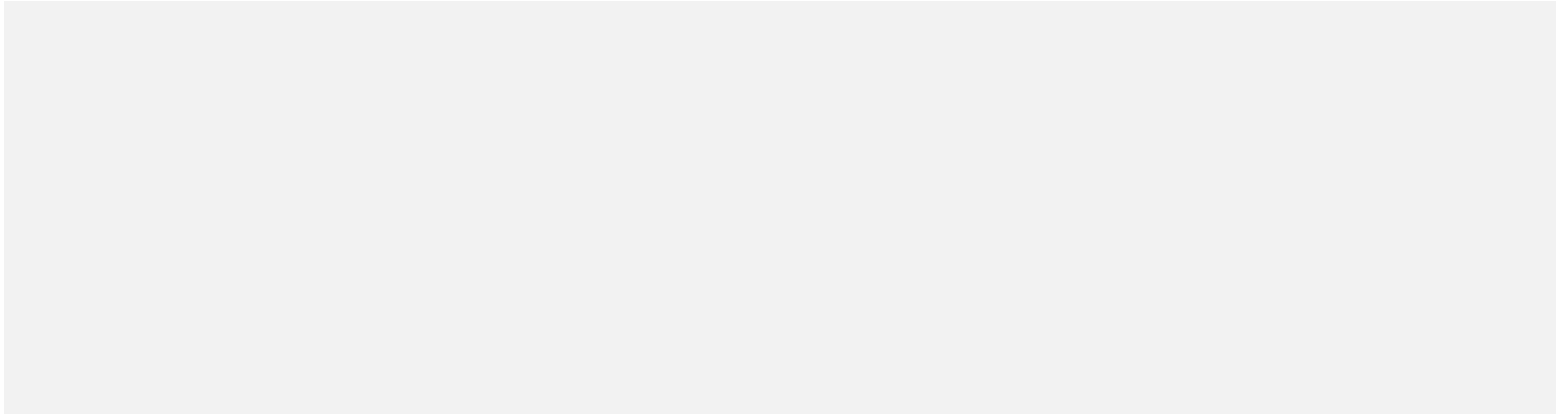
```
<div class="pt-4 bg-warning">top padding (1.5rem = 24px)</div>  
<div class="p-5 bg-success">padding on all sides (3rem = 48px)</div>  
<div class="m-5 pb-5 bg-info">margin on all sides (3rem = 48px) and a bottom  
padding (3rem = 48px)</div>
```

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❖ 수직 정렬

```
<span class="align-baseline">baseline</span>  
<span class="align-top">top</span>  
<span class="align-middle">middle</span>  
<span class="align-bottom">bottom</span>  
<span class="align-text-top">text-top</span>  
<span class="align-text-bottom">text-bottom</span>
```

Bootstrap4 Utilities



Bootstrap4 Utilities

❖ .shadow-none, .shadow, .shadow-sm, .shadow-lg

```
<div class="shadow-none p-4 mb-4 bg-light">No shadow</div>  
<div class="shadow-sm p-4 mb-4 bg-white">Small shadow</div>  
<div class="shadow p-4 mb-4 bg-white">Default shadow</div>  
<div class="shadow-lg p-4 mb-4 bg-white">Large shadow</div>
```

No shadow

Small shadow

Default shadow

Large shadow

Bootstrap4 Utilities

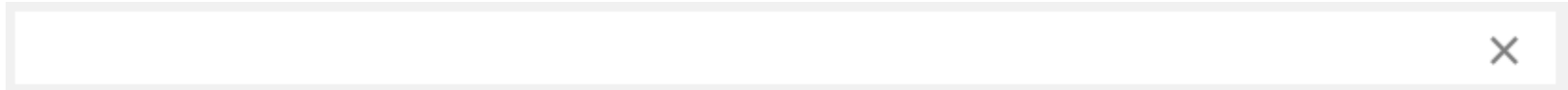
❖ .visible, .invisible

```
<div class="visible">I am visible</div>  
<div class="invisible">I am invisible</div>
```

Bootstrap4 Utilities

❖ .close : close icon

```
<button type="button" class="close">&times;</button>
```



Bootstrap4 Utilities

❖ 색상

- `.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)
- `.text-light`

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❖ .text-black-50, .text-white-50

```
<p class="text-black-50">Black text with 50% opacity on white background</p>  
<p class="text-white-50 bg-dark">White text with 50% opacity on black  
background</p>
```

❖ 배경색

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

Bootstrap4 Utilities

❖ .d-block, .d-*-block

- .d-none : 숨김
- .d-*-none Hides an: 지정 스크린 크기에서 숨김
- .d-inline Makes: inline 보여주기
- .d-*-inline : 지정 스크린 크기에서 inline
- .d-inline-block : inline-block 보여주기
- .d-*-inline-block: 지정한 스크린 크기에서 inline-block으로 보여주기
- .d-table : 테이블 형식으로 보여주기
- .d-*-table : 지정한 스크린 크기에서 테이블 형식으로 보여주기

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❖ .d-block, .d-*-block

```
<span class="d-block bg-success">d-block</span>  
<span class="d-sm-block bg-success">d-sm-block</span>  
<span class="d-md-block bg-success">d-md-block</span>  
<span class="d-lg-block bg-success">d-lg-block</span>  
<span class="d-xl-block bg-success">d-xl-block</span>
```