Bootstrap

Repositories Ranking

1. freeCodeCamp/freeCodeCamp	★ 304122
2. 996icu/996.ICU	★ 246750
3. vuejs/vue	★ 144991
4. twbs/bootstrap	★ 134951
5. facebook/react	★ 133571
6. tensorflow/tensorflow	★ 131852
7. EbookFoundation/free-progra...	★ 126277
8. sindresorhus/awesome	★ 112919
9. getify/You-Dont-Know-JS	★ 105614
10. robbyrussell/oh-my-zsh	★ 92499

Bootstrap

Build responsive, mobile-first projects on the web
with the world's **most popular front-end component library.**
Bootstrap is an open source toolkit for developing with HTML, CSS, and JS.

Bootstrap vs Material

Bootstrap 으로 만든 사이트's

같은 듯 다른 Bootstrap

h1. Non Bootstrap heading

h2. Non Bootstrap heading

h3. Non Bootstrap heading

h4. Non Bootstrap heading

h5. Non Bootstrap heading

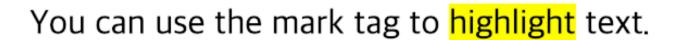###### h6. Non Bootstrap heading

h1. Bootstrap heading

h2. Bootstrap heading

h3. Bootstrap heading

h4. Bootstrap heading

h5. Bootstrap heading

h6. Bootstrap heading

You can use the mark tag to ==highlight== text.

~~This line of text is meant to be treated as deleted text.~~

~~This line of text is meant to be treated as no longer accurate.~~

<u>This line of text is meant to be treated as an addition to the document.</u>

<u>This line of text will render as underlined</u>

This line of text is meant to be treated as fine print.

This line rendered as bold text.

This line rendered as italicized text.

You can use the mark tag to ==highlight== text.

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Quick start

Quick start

CDN 활용을 통해 Bootstrap에 작성된 CSS, JS를 활용하자!

Quick start

Looking to quickly add Bootstrap to your project? Use BootstrapCDN, provided for free by the folks at StackPath. Using a package manager or need to download the source files? Head to the downloads page.

CSS

Copy-paste the stylesheet `<link>` into your `<head>` before all other stylesheets to load our CSS.

```
Copy
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css" integrity="sha384-GJzZqFGwb1QTTN6wy5
```

JS

Many of our components require the use of JavaScript to function. Specifically, they require jQuery, Popper.js, and our own JavaScript plugins. Place the following `<script>`s near the end of your pages, right before the closing `</body>` tag, to enable them. jQuery must come first, then Popper.js, and then our JavaScript plugins.

We use jQuery's slim build, but the full version is also supported.

```
Copy
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1F
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.6/umd/popper.min.js" integrity="sha384-wHAiFfRlMFy6i5SRaxvfOCifBUQy1xHdJ
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/js/bootstrap.min.js" integrity="sha384-B0UglyR+jN6CkvvICOB2joaf5I4l3gm9GU6h
```

Curious which components explicitly require jQuery, our JS, and Popper.js? Click the show components link below. If you're at all unsure about the general page structure, keep reading for an example page template.

Our `bootstrap.bundle.js` and `bootstrap.bundle.min.js` include Popper, but not jQuery. For more information about what's included in Bootstrap, please see our contents section.

▶ Show components requiring JavaScript

CDN ?

Content Delivery(Distribution) Network
컨텐츠(CSS, JS, Image, Text 등)을 효율적으로 전달하기 위해
여러 노드에 가진 네트워크에 데이터를 제공하는 시스템.

개별 end-user의 가까운 서버를 통해 빠르게 전달 가능(지리적 이점)
외부 서버를 활용함으로써 본인 서버의 부하가 적어짐.
CDN은 보통 적절한 수준의 캐시 설정으로 빠르게 로딩할 수 있음.

시작하기 전에,

CSS reset

1. Utilities

CSS 짜느라 고생한 우리, 편하게 클래스로 적용시켜보자!

1.1 Spacing

편-안하게 공간 확보하자.

1-1. Spacing

.m-0?

1-1. Spacing

```css
.m-0 {
  margin: 0 !important;
}
```

margin: **0;**

1-1. Spacing

.mr-0?

1-1. Spacing

```css
.mr-0 {
  margin-right: 0 !important;
}
```

margin-right: 0;

1-1. Spacing

.mx-0?

1-1. Spacing

```
.mr-0,
.mx-0 {
  margin-right: 0 !important;
}
```

```
.ml-0,
.mx-0 {
  margin-left: 0 !important;
}
```

margin-left: 0;
margin-right: 0;

1-1. Spacing

.py-0?

1-1. Spacing

```css
.pt-0,
.py-0 {
  padding-top: 0 !important;
}


.pr-0,
.px-0 {
  padding-right: 0 !important;
}


.pb-0,
.py-0 {
  padding-bottom: 0 !important;
}
```
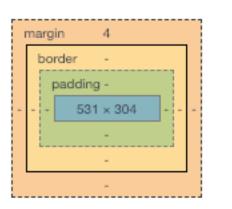
padding-top: 0;
padding-bottom: 0;

1-1. Spacing

.mt-1?

1-1. Spacing

```
.mt-1,
.my-1 {
  margin-top: 0.25rem !important;
}
```

margin-top: 0.25rem ??

1-1. Spacing

Filter	☐ Show all
▶ box-sizing	border-box
▶ color	■ rgb(33, 37, 41)
▶ display	block
▶ font-family	-apple-system, system-ui, "Segoe UI", Roboto, "He…
▶ font-size	16px
▶ font-weight	400
height	304px
▶ line-height	24px
▶ margin-top	4px
▶ text-align	left
▶ text-size-adjust	100%
width	531px
-webkit-tap-highlight-color	▢ rgba(0, 0, 0, 0)

margin-top: 4px;

spacer(1rem) * 0.25

16px * 0.25

4px!

*브라우저 기본 rem은 16px

1-1. Spacing

mt-2?

mt-3?

mt-4?

mt-5?

1-1. Spacing

mt-2?   0.5?   8px!

mt-3?   1?   16px!

mt-4?   1.5?   24px!

mt-5?   3?   48px!

1-1. Spacing

정리해보자.

.py-0

t	top		**0**	0	0px
b	bottom		**1**	0.25	4px
			2	0.5	8px
l	left				
m	margin	**r**	right	**3**	1	16px
p	padding	**x**	left, right	**4**	1.5	24px
		y	top, bottom	**5**	3	48px

1-1. Spacing

음수도 가능합니다!

.my-n0

t	top		**0**	0	0px
b	bottom		**n1**	-0.25	-4px
l	left		**n2**	-0.5	-8px
r	right		**n3**	-1	-16px
x	left, right		**n4**	-1.5	-24px
y	top, bottom		**n5**	-3	-48px

m　margin

.mx-auto

까지 포함해서 활용하러 고고!

1.2. Color

더이상 눈 아픈 파란색은 Never

1-2. Color

파란색

노란색

빨간색

초록색

1-2. Color

파란색

노란색

빨간색

초록색

검정색

1-2. Color


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

background-color: primary

느낌으로 맞춰보자!

활용법

.bg-primary

1-2. Color

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

.bg-light

.bg-dark

.bg-white

.bg-transparent

color: primary

느낌으로 맞춰보자!

활용법

.text-success

1-2. Color

A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

A simple danger alert—check it out!

A simple warning alert—check it out!

A simple info alert—check it out!

A simple light alert—check it out!

A simple dark alert—check it out!

활용법

.alert-warning

1-2. Color

활용법

.btn-secondary

1-2. Color

활용법

.navbar-dark .bg-primary

여기저기에서 써보자!

1.3. border

Spacing을 활용하면 Box model 설정이 끝

1-3. Border

```css
.border {
  border: 1px solid #dee2e6 !important;
}

.border-top {
  border-top: 1px solid #dee2e6 !important;
}

.border-right {
  border-right: 1px solid #dee2e6 !important;
}

.border-bottom {
  border-bottom: 1px solid #dee2e6 !important;
}

.border-left {
  border-left: 1px solid #dee2e6 !important;
}
```

.border

border-color: success

느낌으로 맞춰보자!

1-3. Border

색상과 조합도 가능합니다!

.border .border-success

남은게 뭐지?

1-3. Border radius!

```css
.rounded {
  border-radius: 0.25rem !important;
}

.rounded-top {
  border-top-left-radius: 0.25rem !important;
  border-top-right-radius: 0.25rem !important;
}

.rounded-right {
  border-top-right-radius: 0.25rem !important;
  border-bottom-right-radius: 0.25rem !important;
}

.rounded-bottom {
  border-bottom-right-radius: 0.25rem !important;
  border-bottom-left-radius: 0.25rem !important;
}

.rounded-left {
  border-top-left-radius: 0.25rem !important;
  border-bottom-left-radius: 0.25rem !important;
}
```

.rounded-

1-3. Border

rounded-circle
rounded-pill

1.4. display

Box model.. display까지?

display: block

느낌으로 맞춰보자!

1-4. Display

.d-block

1-4. Display

<div style="text-align: center; color: #b22222;">

.d-inline

</div>

1-4. Display

.d-none

1-4. Display

```css
.d-none {
  display: none !important;
}


.d-inline {
  display: inline !important;
}


.d-inline-block {
  display: inline-block !important;
}


.d-block {
  display: block !important;
}


.d-table {
  display: table !important;
}
```

반응형 맛보기?!

.d-sm-none

1-4. Display

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix		sm	md	lg	xl

* **breakpoint 들은 앞으로 여기저기서 사용될 겁니다!**

Screen Size	Class
Hidden on all	.d-none
Hidden only on xs	.d-none .d-sm-block
Hidden only on sm	.d-sm-none .d-md-block
Hidden only on md	.d-md-none .d-lg-block
Hidden only on lg	.d-lg-none .d-xl-block
Hidden only on xl	.d-xl-none
Visible on all	.d-block
Visible only on xs	.d-block .d-sm-none
Visible only on sm	.d-none .d-sm-block .d-md-none
Visible only on md	.d-none .d-md-block .d-lg-none
Visible only on lg	.d-none .d-lg-block .d-xl-none
Visible only on xl	.d-none .d-xl-block

1.5. position

Box model.. 위치까지?

position: static

느낌으로 맞춰보자!

1-5. Position

.position-static

1-5. Position

```css
.position-static {
  position: static !important;
}


.position-relative {
  position: relative !important;
}


.position-absolute {
  position: absolute !important;
}


.position-fixed {
  position: fixed !important;
}
```

1-5. Position

```css
.fixed-top {
  position: fixed;
  top: 0;
  right: 0;
  left: 0;
  z-index: 1030;
}

.fixed-bottom {
  position: fixed;
  right: 0;
  bottom: 0;
  left: 0;
  z-index: 1030;
}
```

직접 적용하러 고고!

1.6. Text

글자변경도 자유롭게!

1-6. Text

text-align: center

느낌으로 맞춰보자!

1-6. Text

```css
.text-left {
  text-align: left !important;
}


.text-right {
  text-align: right !important;
}


.text-center {
  text-align: center !important;
}
```

.text-center

font-weight: bold

느낌으로 맞춰보자!

1-6. Text

```css
.font-weight-light {
  font-weight: 300 !important;
}


.font-weight-lighter {
  font-weight: lighter !important;
}


.font-weight-normal {
  font-weight: 400 !important;
}


.font-weight-bold {
  font-weight: 700 !important;
}


.font-weight-bolder {
  font-weight: bolder !important;
}


.font-italic {
  font-style: italic !important;
}
```

.font-weight-bold

Components 는 공식문서로 확인

앞으로도 많이 활용할 것이고, 직접 들어가서 코드를 찾아야하기 때문!

color, breakpoint 는 component 에서도
많이 쓰일 예정이니 다시 확인해보자!

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix		sm	md	lg	xl

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

.bg-light

.bg-dark

.bg-white

.bg-transparent