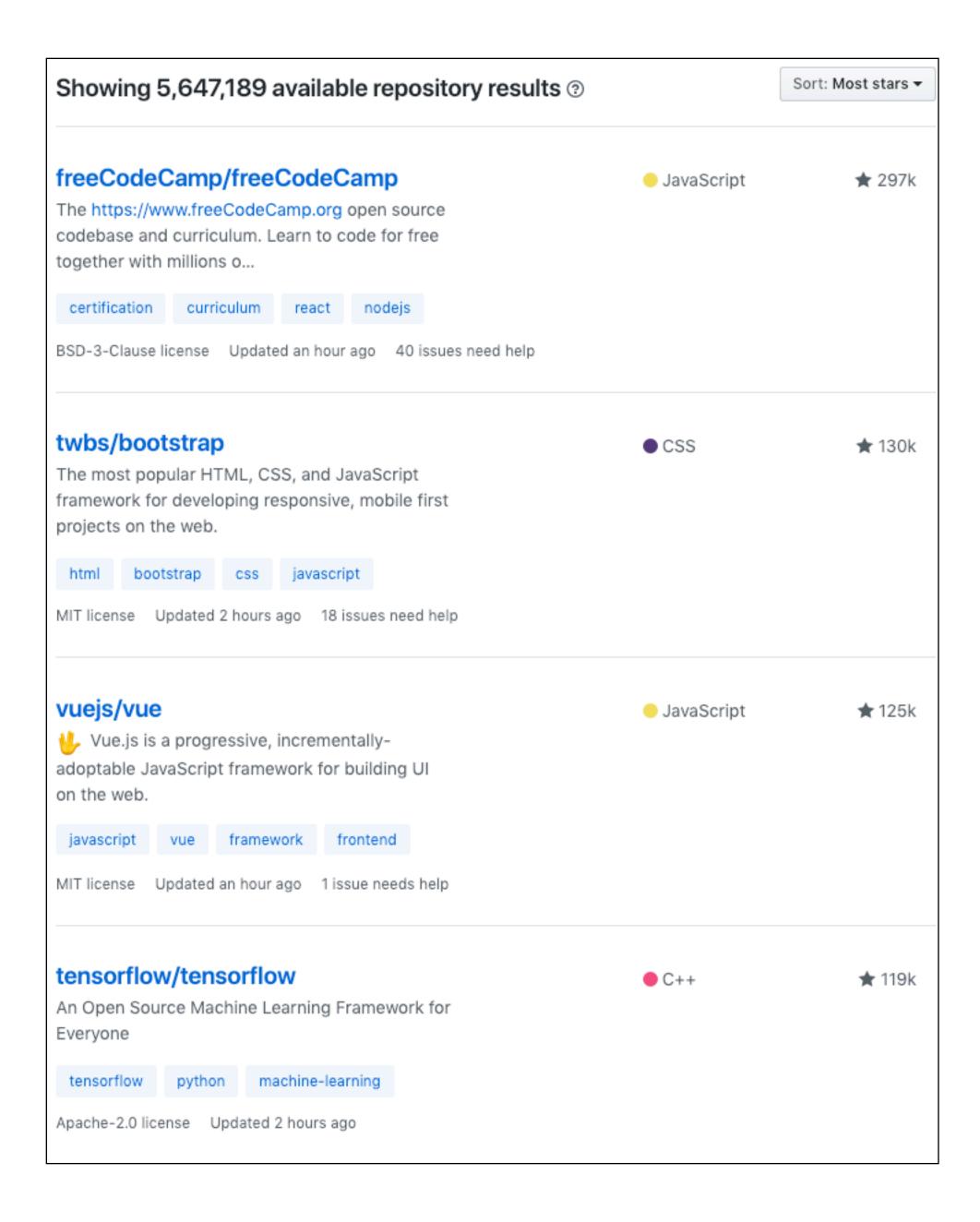


Bootstrap

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.



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Bootstrap vs Material



Bootstrap 으로 만든 사이트's

같은듯 다른 Bootstrap!





h1. Non Bootstrap heading

Hi 418×38.5 Ion Bootstrap heading

h3. Non Bootstrap heading

h4. Non Bootstrap heading

h5. Non Bootstrap heading

h6. Non Bootstrap heading

h1. Bootstrap heading

nz. 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.

This line of text is meant to be treated as an addition to the document.

This line of text will render as underlined

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

This line rendered as bold text.

This line rendered as italicized 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 clink rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css" integrity="sha384-GJzZqFGwb1QTTN6wy5" com/bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css" integrity="sha384-GJzZqFGwb1QTTN6wy5" com/bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css" integrity="sha384-GJzZqFGwb1QTTN6wy5" com/bootstrapcdn.com/

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+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1F
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.6/umd/popper.min.js" integrity="sha384-wHAiFfRlMFy6i5SRaxvf0CifBUQy1xHdJ
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/js/bootstrap.min.js" integrity="sha384-B0UglyR+jN6CkvvIC0B2joaf5I4l3gm9GU6F</pre>

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.

시작하기전에,

CSS reset

1. Utilities

CSS 짜느라 고생한 우리, 편하게 클래스로 적용시켜보자!

1.1 Spacing

편-안하게 공간 확보하자.

.m-0?

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

margin: 0!

.mr-0?

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

margin-right: 0!

.mx-0?

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

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

margin-left: 0! margin-right: 0!

.py-0?

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

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

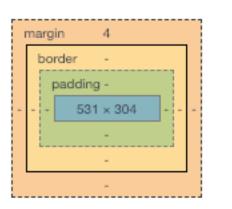
.pb-0,
.py-0 {
   padding-bottom: 0 !important;
}
```

padding-top: 0! padding-bottom: 0!

.mt-1?

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

margin-top: 0.25rem?



| 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

mt-2?

mt-3?

mt-4?

mt-5?

```
mt-2?0.5?8px!mt-3?1?16px!mt-4?1.5?24px!mt-5?3?48px!
```

정리해보자.

.py-0

m margin

p padding

| t | top |
|---|----------------|
| b | bottom |
| I | left |
| r | right |
| X | left, right |
| у | top, bottom |

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

음수도 가능합니다!

.my-n0

m margin

| t | top |
|---|----------------|
| b | bottom |
| | left |
| r | right |
| X | left, right |
| У | top, bottom |

| U | U | upx |
|----|-------|-------|
| n1 | -0.25 | -4px |
| n2 | -0.5 | -8px |
| n3 | -1 | -16px |
| n4 | -1.5 | -24px |
| n5 | -3 | -48px |

.mx-auto

까지 포함해서 활용하러 고고!

1.2. Color

더이상 눈 아픈 파란색은 Never

| <mark>노란색</mark> 빨간색 |
|-------------------------|
| |
| |
| |
| 초록색 |

| 파란색 | | |
|-----|--|--|
| 노란색 | | |
| 빨간색 | | |
| 초록색 | | |
| 검정색 | | |



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

background-color: primary

느낌으로 맞춰보자!

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

.bg-transparent

활용법

.bg-primary

color: primary

느낌으로 맞춰보자!

활용법

.text-success

A simple dark alert—check it out!

A simple primary alert—check it out!

A simple secondary 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!

활용법

.alert-warning



활용법

.btn-secondary



활용법

.navbar-dark .bg-primary

여기저기에서 써보자!

1.3. border

Spacing을 활용하면 Box model 설정이 끝-

```
.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!

색상과 조합도 가능합니다!

.border.border-primary

남은게 뭐지?

radius!

```
.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-

rounded-circle rounded-pill

1.4. display

Box model.. display까지?

display: block

느낌으로 맞춰보자!

.d-block

.d-inline

.d-none

```
.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

| | 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 Ig | .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 Ig | .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

```
.position-static {
 position: static !important;
.position-relative {
 position: relative !important;
.position-absolute {
 position: absolute !important;
.position-fixed {
 position: fixed !important;
```

1-5. Position



```
.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!

text-align: center

느낌으로 맞춰보자!

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

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

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

.text-left

font-weight: bold

느낌으로 맞춰보자!

```
.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

컴포넌트는 공식문서로 확인

앞으로도 많이 활용할 것이고, 직접 들어가서 코드를 찾아야하기 때문!

color, breakpoint는 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 |