UI/UX

03

자바스크립트의 객체

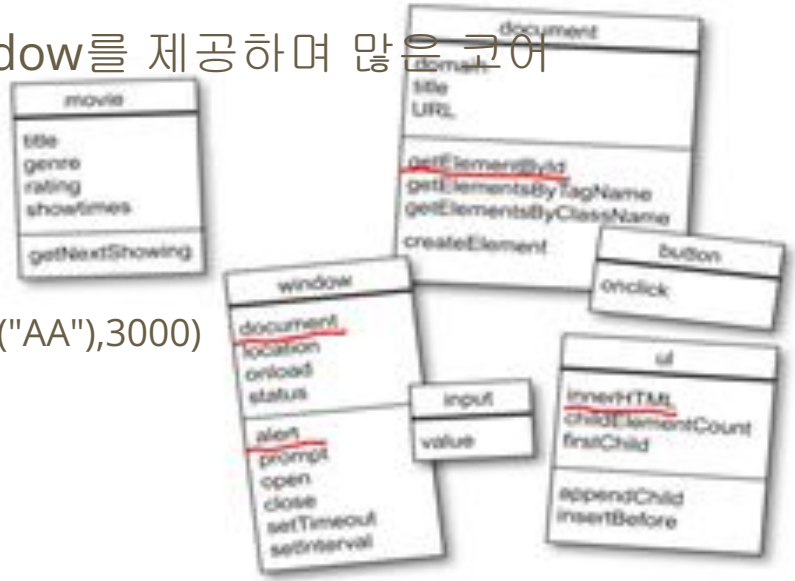
- 객체가 변수에 할당될 때 그 변수는 객체 자체가 아니라 객체에 대한 레퍼런스를 저장
- 레퍼런스를 객체에 대한 포인터로 간주

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>생성자 TEST</title>
    <script>
        function stud(name,score,grade)
        {
            this.name=name;
            this.score=score;
            this.grade=grade;
            this.comment=function(){
                alert(`${this.name} 학생의 점수는 ${this.grade}이고 등급은 ${this.grade} 입니다.`);
            };
        }
        let stud1=new stud("김하나",98,"A");
        let stud2=new stud("이하나",35,"F");
        let stud3=new stud("박하나",87,"B");
        let stud4=new stud("최하나",77,"C");

        stud1.comment();
        stud2.comment();
        stud3.comment();
        stud4.comment();
    </script>
</head>
<body>
    생성자 TEST
</body>
</html>
```

window객체

- window 객체는 global object 이다.
- document.getElementById로 부터 돌려받은 엘리먼트들과 마찬가지로 document와 window도 객체들이다.
- global environment 객체이며 main window를 제공하며 많은 코어 프로퍼티와 메소드를 포함하고 있다.
  - location, status, onload, document
  - alert, prompt, open, close
    setTimeout, setInterval
    - ex) window.setTimeout(()=>console.log("AA"),3000)
-



document 객체

- document 객체는 DOM을 접근(access)하는데 사용된다.
- 앞에서 보았듯이 사실 document 객체는 window 객체의 프로퍼티이다.
- 물론 window.document 처럼 사용하지는 않으며 보통 window는 생략한다.
- getElementById 에 의해 반환되는 엘리먼트 또한 객체이다.
- 프로퍼티와 메소드
  - domain, title,URL
  - getElementById, getElementsByTagName, getElementsByClassName
    createElement

태그 객체 ex) P태그

- 프로퍼티와 메소드
  - innerHTML, childElementCount, firstChild
  - appendChild, insertBefore, setAttribute, getAttribute

검색결과 약 249,000,000개 (0.27초)

getbootstrap.com
https://getbootstrap.com

Bootstrap · The most popular HTML, CSS, and JS library in the ...

Bootstrap utilizes Sass for a modular and customizable architecture. Import only the components you need, enable global options like gradients and shadows, and ...

V4.6.x docs

Alerts - Layout docs - Download - Examples - Contents - JavaScript

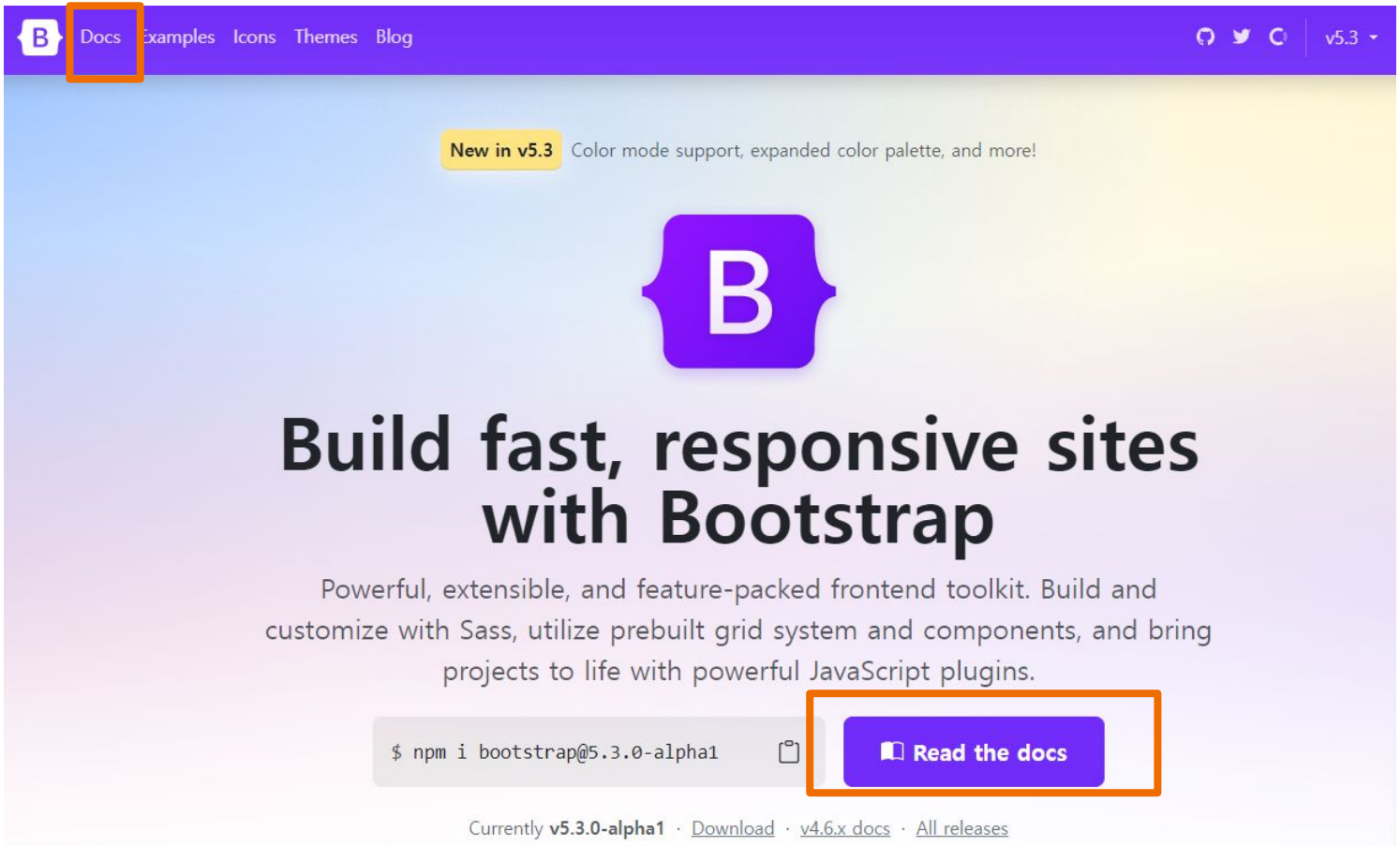
Get started with Bootstrap

Bootstrap is a powerful, feature-packed frontend toolkit.

5.1

Download - Navbar - Examples - Contents - JavaScript - ...

Introduction


Docs
Examples
Icons
Themes
Blog
v5.3
New in v5.3
Color mode support, expanded color palette, and more!
Build fast, responsive sites with Bootstrap
Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins.
$ npm i bootstrap@5.3.0-alpha1
Read the docs
Currently v5.3.0-alpha1 · Download · v4.6.x docs · All releases

2. **Include Bootstrap's CSS and JS.** Place the `<link>` tag in the `<head>` for our CSS, and the `<script>` tag for our JavaScript bundle (including Popper for positioning dropdowns, poppers, and tooltips) before the closing `</body>`. Learn more about our CDN links.

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bund
  </body>
</html>
```

Include Bootstrap's CSS and JS. Place the <link> tag in the <head> for our CSS, and the <script> tag for our JavaScript bundle (including Popper for positioning dropdowns, poppers, and tooltips) before the closing </body>. Learn more about our CDN links.

부트스트랩의 CSS와 JS를 포함한다. CSS에 대한 <링크> 태그와 자바스크립트 번들에 대한 <스크립트> 태그(드롭다운, 팝퍼, 툴팁을 배치하기 위한 포퍼 포함)를 닫는 </body> 전에 배치한다. CDN 링크에 대해 자세히 알아보십시오.

CDN

- CDN은 Content Delivery Network 즉, 콘텐츠 전송 네트워크의 약자
- 콘텐츠를 캐싱할 수 있는 캐시기능을 갖추고 있으며 최종 사용자와 가까운 위치에서 사용자에게 콘텐츠를 제공할 수 있다.
- 같은 웹 서버에 접속하는 사용자 수가 늘어나 부하가 증가되는 현상 해소
- 먼 위치의 서버의 접속으로 인한 지연 발생 해소 가능
- 대역폭 비용 감소

bootstrapEx1.html - button

bootstrapEx2.html - alert

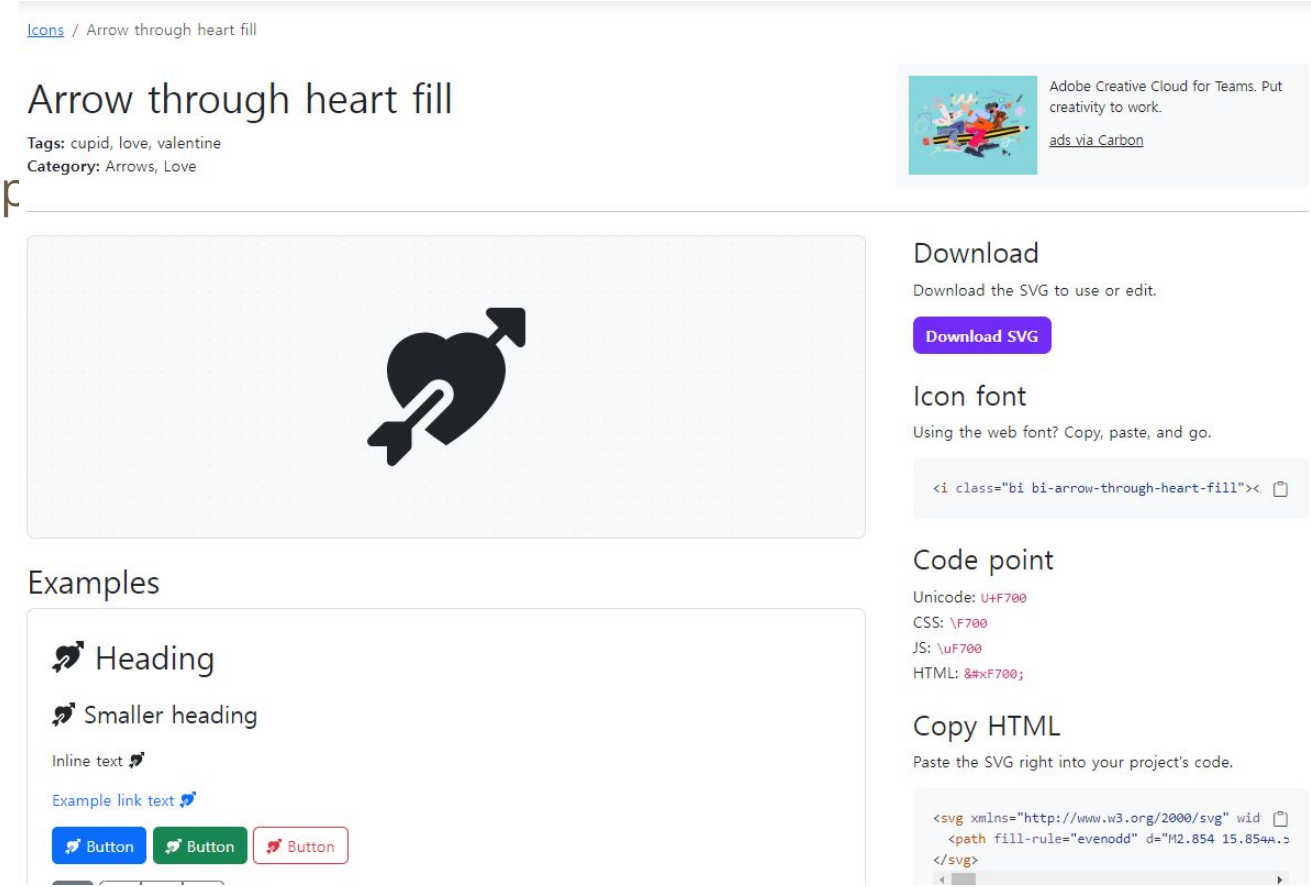
bootstrapEx3.html - navbar demo2

bootstrapEx4.html - navs & tabs

- data-bs-target 조작해보기
- + 자신의 이름 탭 추가하기기

bootstrap icon

https://www.bootstrap



Webpack
Parcel
Vite
Accessibility
RFS
RTL
Contribute

Customize
Overview
Sass
Options
Color
Color modes
Components
CSS variables
Optimize

Layout
Breakpoints
Containers
Grid

Available breakpoints

Between b

Bootstrap includes six default breakpoints, sometimes referred to as *grid tiers*, for building responsively. These breakpoints can be customized if you're using our source Sass files.

Breakpoint	Class infix	Dimensions
Extra small	*None*	<576px
Small	`sm`	≥576px
Medium	`md`	≥768px
Large	`lg`	≥992px
Extra large	`xl`	≥1200px
Extra extra large	`xxl`	≥1400px

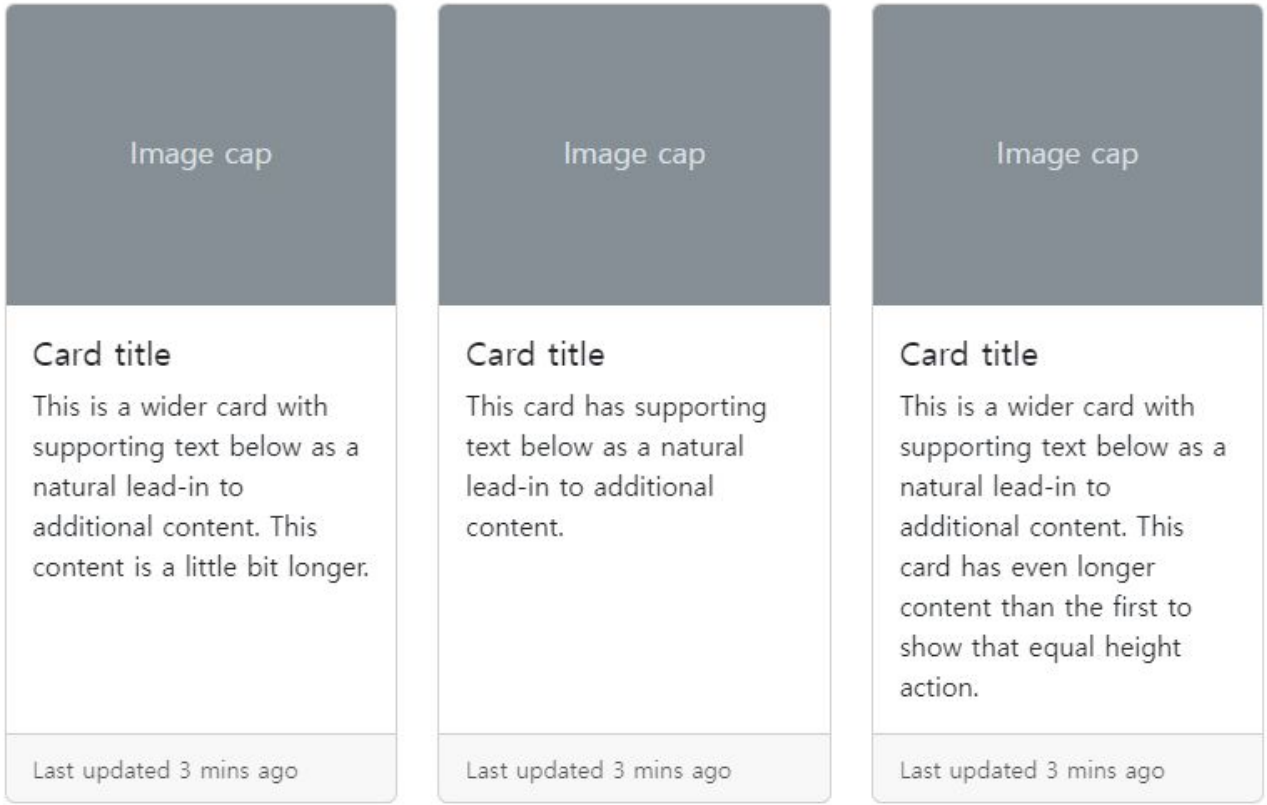
Each breakpoint was chosen to comfortably hold containers whose widths are multiples of 12. Breakpoints are also representative of a subset of common device sizes and viewport dimensions—they don't specifically target every use case or device. Instead, the ranges provide a strong and consistent foundation to build on for nearly any device.

These breakpoints are customizable via Sass—you'll find them in a Sass map in our `_variables.scss` stylesheet.

Layout
Validation

Components
Accordion
Alerts
Badge
Breadcrumb
Buttons
Button group
Card
Carousel
Close button
Collapse
Dropdowns
List group
Modal
Navbar
Navs & tabs
Offcanvas
Pagination
Placeholders

Just like with card groups, card footers will automatically line up.



HTML