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Resource (แหล่งอ้างอิง)



- Boostrap official website <u>https://getbootstrap.com/</u>
- W3Schools bootstrap (ver.5)
 https://www.w3schools.com/bootstrap5/index.php
- Tutorial Republic (ver.5)
 https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/
- Bootstrap 5 (cheat sheet)

https://bootstrapcreative.com/resources/bootstrap-5-cheat-sheet-classes-index/















What & Why Bootstrap?















Why Bootstrap?



Bootstrap is one of the most popular CSS Framework...

Bootstrap is a free, open source <u>HTML, CSS, and JavaScript framework</u> for quickly building responsive websites..

Initially, Bootstrap was called <u>Twitter Blueprint</u> and was developed by a team working at Twitter. It supports responsive design and features <u>predefined design templates</u> that you can use out of the box.

..CSS Framework???

reference: https://developer.mozilla.org/en-US/docs/Glossary/Bootstrap















CSS Framework



A <u>CSS framework</u> is a library allowing for easier, more standards-compliant web design using the Cascading Style Sheets language

reference:

https://en.wikipedia.org/wiki/CSS framework















Getting Start.. Bootstrap















Getting start..



https://getbootstrap.com/docs/5.1/getting-started/introduction/#starter-template

```
Сору
<!doctype html>
<html lang="en">
  <head>
   <!-- Required meta tags -->
                                                                                      Copy & paste ไปที่ไฟล์ .html ของเรา
    <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <!-- Bootstrap CSS -->
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="style"</pre>
   <title>Hello, world!</title>
  </head>
  <body>
   <h1>Hello, world!</h1>
   <!-- Optional JavaScript; choose one of the two! -->
   <!-- Option 1: Bootstrap Bundle with Popper -->
   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" inter
</pre>
   <!-- Option 2: Separate Popper and Bootstrap JS -->
    <1 --
   <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js" integr:</pre>
   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.min.js" integrity='</pre>
    -->
  </body>
</html>
```











Relearn Solution

Starter template..



```
<!doctype html>
<html lang="en">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"</pre>
rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqy12QvZ6jIW3"
crossorigin="anonymous">
    <title>Hello, world!</title>
  <!-- Start HTML Here -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+I1RH9sENBO0LRn5g+8nbTov4+1p"
crossorigin="anonymous"></script>
```











Part of Bootstrap















Part of Bootstrap



Utilities

API

Background

Borders

Colors

Display

Flex

Float

Interactions

Opacity

Overflow

Position

Shadows

Sizing

Spacing

Text

Vertical align

Visibility

∨ Layout

Breakpoints

Containers

Grid

Columns

Gutters

Utilities

Z-index

CSS Grid

√ Forms

Overview

Form control

Select

Checks & radios

Range

Input group

Floating labels

Layout

Validation

∨ Components

Accordion

Alerts

Badge

Breadcrumb

Buttons

Button group Card

Carousel

Close button

Collapse

Dropdowns List group Modal

Navs & tabs

Navbar

Offcanvas

Pagination

Placeholders

Popovers Progress

Scrollspy

Spinners Toasts

Tooltips

∨ Content

Reboot

Typography

Images

Tables

Figures

→ Helpers

Clearfix

Colored links

Ratio

Position

Stacks

Visually hidden

Stretched link

Text truncation

Vertical rule















Class utility















Utilities

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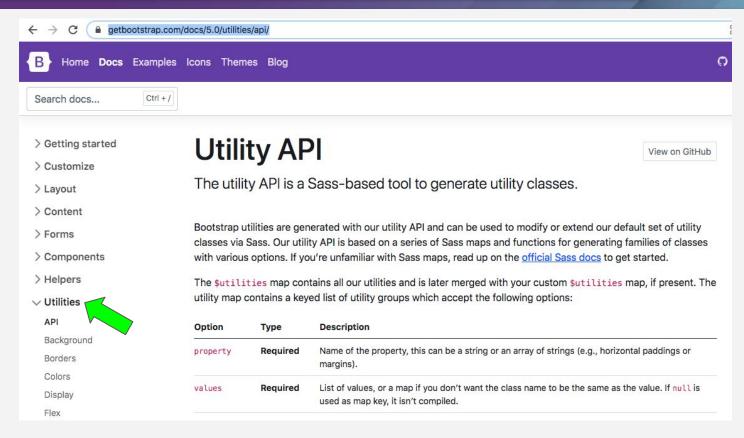
Text

Vertical align

Visibility

https://getbootstrap.com/docs/5.0/utilities/api/















Layout















Breakpoint & Container



<u>Breakpoint</u>

- sm, md, lg, xl, xxl

Breakpoint	Class infix	Dimensions	
X-Small	None		
Small	sm	≥576px	
Medium	md	≥768px ≥992px	
Large	lg		
Extra large	xl	≥1200px	
Extra extra large	xxl	≥1400px	

<u>Container</u>

- sm, md, lg, xl, xxl
- fluid

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
.container	100%	540px	720px	960px	1140px	1320px
.container-sm	100%	540px	720px	960px	1140px	1320px
.container-md	100%	100%	720px	960px	1140px	1320px
.container-lg	100%	100%	100%	960px	1140px	1320px
.container-xl	100%	100%	100%	100%	1140px	1320px
.container-xxl	100%	100%	100%	100%	100%	1320px
container-fluid	100%	100%	100%	100%	100%	100%













bootstrap icon

















```
<!DOCTYPF html>
<html lang="en">
 <head>
   <meta charset="utf-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1" />
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"</pre>
integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.1/font/bootstrap-icons.css">
   <title>Hello, Bootstrap 5!</title>
 </head>
 <body>
  <h1 class="display-1 border">Codecamp Thailand</h1>
  <i class="bi-alarm display-1 border"></i>
  <i class="bi bi-facebook display-1"></i>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYs0g+OMhuP+I1RH9sENB00LRn5g+8nbTov4+1p"
crossorigin="anonymous"></script>
 </body>
</html>
```









