



Bootstrap

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Pendahuluan

Bootstrap adalah sebuah framework open-source yang digunakan untuk pengembangan web. Framework ini dibuat oleh Twitter dan menyediakan berbagai komponen dan alat yang mempermudah desain dan pengembangan situs web responsif dan mobile-friendly. Bootstrap memanfaatkan kombinasi HTML, CSS, dan JavaScript untuk menyediakan komponen antarmuka pengguna yang siap pakai, seperti tombol, formulir, navigasi, grid sistem, dan banyak lagi.



Ringkasan

Bangun situs yang cepat dan responsif dengan Bootstrap

Toolkit frontend yang kuat, dapat diperluas, dan penuh fitur.

Bangun dan sesuaikan dengan Sass, manfaatkan sistem dan komponen grid bawaan,

Wujudkan proyek dengan plugin JavaScript yang kuat.

Bagian dari Bootstrap

Layout

- Breakpoints
- Containers
- Grid
- Columns
- Gutters
- Utilities
- Z-index
- CSS Grid

Content

- Reboot
- Typography
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Form

- Overview
- Form control
- Select
- Checks & radios
- Range
- Input group
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- Layout
- Validation

Component

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- Breadcrumb
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- Collapse
-

Helpers

- Clearfix
- Color & background
- Colored links
- Focus ring
- Icon link
- Position
- Ratio
- Stacks
- Stretched link
-

Utilities

- API
- Background
- Borders
- Colors
- Display
- Flex
- Float
- Interactions
- Link
- Object fit
-

Penggunaan Bootstrap

Menggunakan Bootstrap sangat mudah, untuk memulai langsung menggunakan Bootstrap, bisa menggunakan CDN, install melalui paket manajer atau mengunduh sourcecode

CDN via jsDelivr

Skip the download with [jsDelivr](#) to deliver cached version of Bootstrap's compiled CSS and JS to your project.

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/"
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/
```

If you're using our compiled JavaScript and prefer to include Popper separately, add Popper before our JS, via a CDN preferably.

```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.min.js"
```

Compiled CSS and JS

Download ready-to-use compiled code for **Bootstrap v5.3.2** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see [CSS files comparison](#))
- Compiled and minified JavaScript plugins (see [JS files comparison](#))

This doesn't include documentation, source files, or any optional JavaScript dependencies like Popper.

Download

Source files

Compile Bootstrap with your own asset pipeline by downloading our source Sass, JavaScript, and documentation files. This option requires some additional tooling:

- [Sass compiler](#) for compiling Sass source files into CSS files
- [Autoprefixer](#) for CSS vendor prefixing

Should you require our full set of [build tools](#), they are included for developing Bootstrap and its docs, but they're likely unsuitable for your own purposes.

Download source

Penggunaan Bootstrap (Lanjutan)

CDN via jsDelivr

Skip the download with [jsDelivr](#) to deliver cached version of Bootstrap's compiled CSS and JS to your project.

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="style" type="text/css">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-YvpcrKf/bEg+YNzQJVBZZfMPbFuyZbBPJ15vc693h8n8e2EY26921dM82NqunqE" crossorigin="anonymous">
```

If you're using our compiled JavaScript and prefer to include Popper separately, add Popper before our JS, via a CDN preferably.

```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.8/dist/umd/popper.min.js" integrity="sha384-I7E84VDtM99Jfc4G58q8z/p3QiWL6Z0n0+6Zlb38V" type="text/javascript">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.min.js" integrity="sha384-YvpcrKf/bEg+YNzQJVBZZfMPbFuyZbBPJ15vc693h8n8e2EY26921dM82NqunqE" crossorigin="anonymous">
```

Mobile Friendly

Secara default Bootstrap 5 sudah support penggunaan mobile device

- Responsif menyesuaikan ukuran layar
- Mudah untuk melakukan zoom tampilan dengan sentuhan tangan

Tambahkan script dibawah ini pada bagian <head> untuk mengaktifkan fungsi zoom dengan sentuhan

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

- Width=device-width : untuk mengatur lebar tampilan halaman sesuai dengan ukuran device
- Initial-scale=1 : untuk mengatur tingkat zoom saat pertama kali halaman dimuat

Penggunaan Class Container

Container adalah blok tampilan dasar Bootstrap yang berisi, melapisi, dan menyelaraskan konten Anda dalam perangkat atau area pandang tertentu.

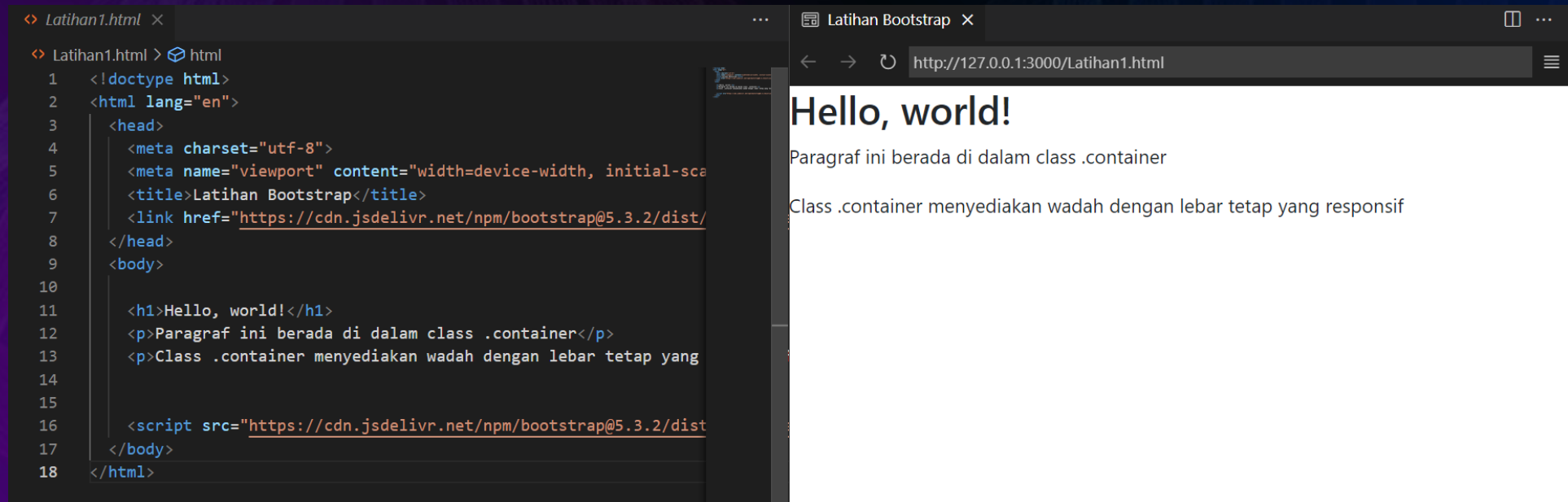
```
<div class="container">  
  <!-- Content here -->  
</div>
```



Akan membuat tampilan menambahkan margin, posisi di tengah, dan bungkus konten Anda secara responsif

Penggunaan Class Container

Contoh :



The image shows a side-by-side comparison of a code editor and a web browser. The code editor on the left displays the HTML code for 'Latihan1.html', which includes a doctype, meta tags for charset and viewport, a title 'Latihan Bootstrap', and a link to Bootstrap 5.3.2. The body contains an h1 'Hello, world!', two paragraphs explaining the use of the .container class, and a script tag for Bootstrap. The web browser on the right shows the rendered page at 'http://127.0.0.1:3000/Latihan1.html'. The page displays 'Hello, world!' in a large font, followed by two paragraphs: 'Paragraf ini berada di dalam class .container' and 'Class .container menyediakan wadah dengan lebar tetap yang responsif'. The paragraphs are centered and have a fixed width, demonstrating the effect of the .container class.

```
<?xml version="1.0" encoding="UTF-8" ?>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Latihan Bootstrap</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <p>Paragraf ini berada di dalam class .container</p>
    <p>Class .container menyediakan wadah dengan lebar tetap yang responsif</p>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.min.js"></script>
  </body>
</html>
```

Latihan Bootstrap

http://127.0.0.1:3000/Latihan1.html

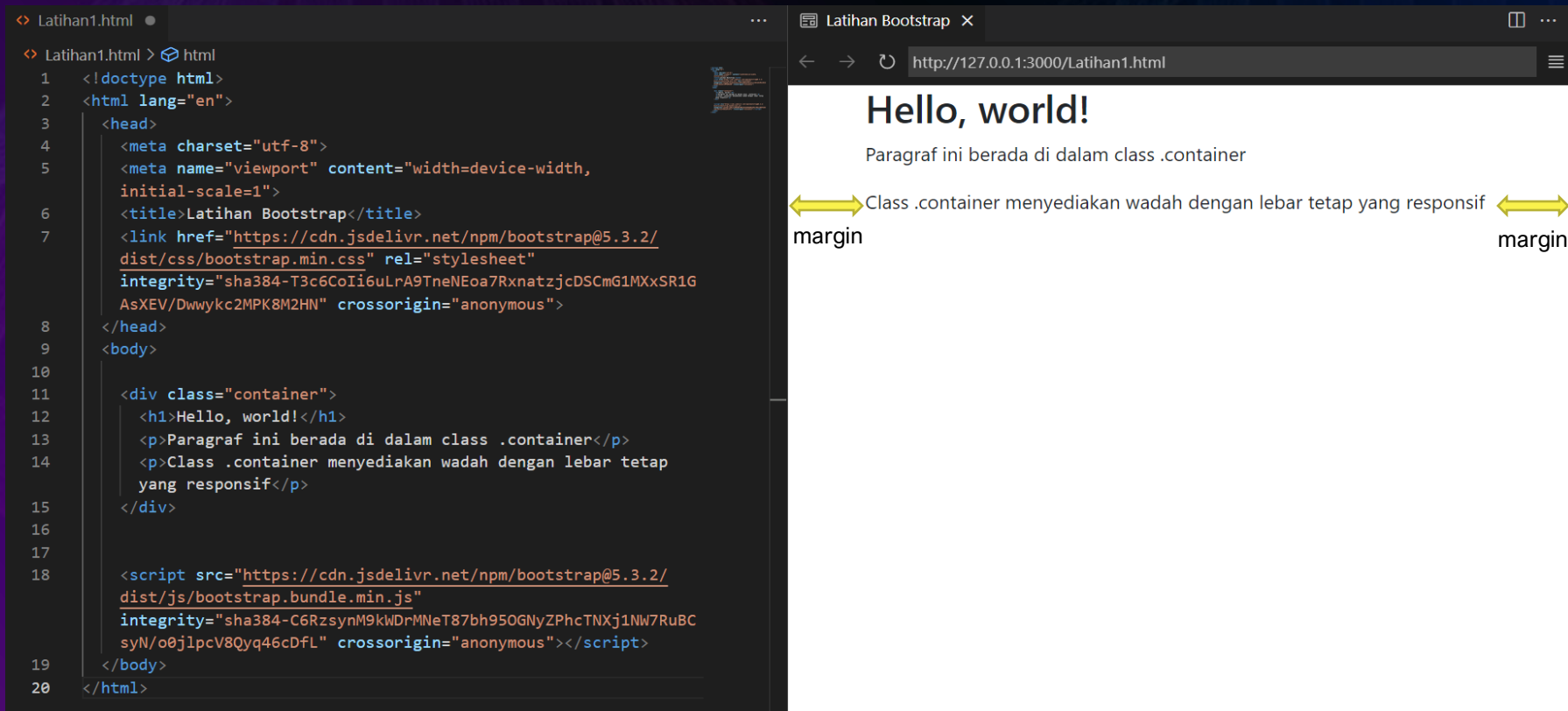
Hello, world!

Paragraf ini berada di dalam class .container

Class .container menyediakan wadah dengan lebar tetap yang responsif

Penggunaan Class Container

Contoh :



The image shows a side-by-side comparison of a code editor and a web browser. The code editor on the left displays the HTML code for 'Latihan1.html', which includes Bootstrap CSS and JS links. A

with class 'container' is used to wrap the main content. The browser on the right shows the rendered output: 'Hello, world!' and two paragraphs explaining the container's purpose. Yellow double-headed arrows indicate the width and margin of the container.

```
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width,
6       initial-scale=1">
7     <title>Latihan Bootstrap</title>
8     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/
9       dist/css/bootstrap.min.css" rel="stylesheet"
10      integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1G
11      AsXEV/Dwvykc2MPK8M2HN" crossorigin="anonymous">
12   </head>
13   <body>
14     <div class="container">
15       <h1>Hello, world!</h1>
16       <p>Paragraf ini berada di dalam class .container</p>
17       <p>Class .container menyediakan wadah dengan lebar tetap
18         yang responsif</p>
19     </div>
20   </body>
21 </html>
```

Latihan Bootstrap

http://127.0.0.1:3000/Latihan1.html

Hello, world!

Paragraf ini berada di dalam class .container

Class .container menyediakan wadah dengan lebar tetap yang responsif

margin

Grid System

- Bootstrap membagi halaman menjadi grid 12 kolom dan beberapa baris penempatan elemen yang lebih mudah.

- Sistem grid responsif dan kolom akan diatur ulang secara otomatis tergantung pada ukuran layar.

- | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 | Col 1 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Grid System

Grid options

Bootstrap's grid system can adapt across all six default breakpoints, and any breakpoints you customize. The six default grid tiers are as follows:

- Extra small (xs)
- Small (sm)
- Medium (md)
- Large (lg)
- Extra large (xl)
- Extra extra large (xxl)

As noted above, each of these breakpoints have their own container, unique class prefix, and modifiers. Here's how the grid changes across these breakpoints:

	xs <576px	sm ≥576px	md ≥768px	lg ≥992px	xl ≥1200px	xxl ≥1400px
Container <small>max-width</small>	None (auto)	540px	720px	960px	1140px	1320px
Class prefix	<small>.col-</small>	<small>.col-sm-</small>	<small>.col-md-</small>	<small>.col-lg-</small>	<small>.col-xl-</small>	<small>.col-xxl-</small>
# of columns	12					
Gutter width	1.5rem (.75rem on left and right)					
Custom gutters	Yes					
Nestable	Yes					
Column ordering	Yes					

Grid System

Cara Penerapan Grid :

Tempatkan kolom di dalam `<div class="row"> </div>` untuk setiap baris.

Atur setiap lebar kolom menggunakan awalan class:

`.col-`

`.col-sm-`

`.col-md-`

`.col-lg-`

`.col-xl-`

`.col-xxl-`

Grid System

Contoh



HTML

```
<div class="container text-center">
  <div class="row">
    <div class="col">
      1 of 3
    </div>
    <div class="col-6">
      2 of 3 (wider)
    </div>
    <div class="col">
      3 of 3
    </div>
  </div>
  <div class="row">
    <div class="col">
      1 of 3
    </div>
    <div class="col-5">
      2 of 3 (wider)
    </div>
    <div class="col">
      3 of 3
    </div>
  </div>
</div>
```

Thank you

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