

Modul Bootstrap (1)

Summary	Modul ini membahas tentang dasar-dasar JQuery
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Bootstrap

- Bootstrap adalah kerangka kerja front-end gratis untuk pengembangan web yang lebih cepat dan lebih mudah
- Bootstrap menyertakan template desain berbasis HTML dan CSS untuk tipografi, formulir, tombol, tabel, navigasi, modals, carousel gambar, dan banyak lainnya, serta plugin JavaScript opsional
- Bootstrap juga mempunyai kemampuan untuk membuat desain responsif dengan mudah

Desain Web Responsif

Desain web responsif adalah cara-cara membuat situs web yang secara otomatis dapat menyesuaikan layout dan komponen-komponen di dalamnya terhadap ukuran tampilan perangkat, dari ponsel kecil hingga desktop berlayar besar.

Menggunakan Bootstrap

Ada dua cara untuk menggunakan Bootstrap 4 di situs web yaitu :

- Bootstrap 4 dari CDN
Jika kita tidak ingin mengunduh dan menghosting Bootstrap 4 sendiri, kita dapat memasukkannya dari CDN (Content Delivery Network). MaxCDN menyediakan dukungan CDN untuk CSS dan JavaScript Bootstrap kita juga harus menyertakan jQuery.

```
<!-- Latest compiled and minified CSS -->
```

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```
<!-- jQuery library -->
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
```

```
<!-- Popper JS -->
```

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
```

```
<!-- Latest compiled JavaScript -->
```

```
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
```

- Unduh Bootstrap 4 dari getbootstrap.com

Jika Anda ingin mengunduh dan menghosting sendiri Bootstrap 4, buka <https://getbootstrap.com/>, dan ikuti petunjuk di sana.

Web page dengan Bootstrap

Bootstrap 4 menggunakan elemen HTML dan properti CSS yang membutuhkan doctype HTML5.

Selalu sertakan doctype HTML5 di awal halaman, bersama dengan atribut lang dan set karakter yang benar

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
  </head>
</html>
```

Bootstrap 4 dirancang agar responsif terhadap perangkat seluler. Untuk memastikan rendering yang tepat dan zoom sentuh, tambahkan tag <meta> berikut di dalam elemen <head>:

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

width=device-width menyetel lebar halaman agar mengikuti lebar layar perangkat (yang akan bervariasi tergantung pada perangkat).

Bagian initial-scale = 1 menyetel tingkat zoom awal saat halaman pertama kali dimuat oleh browser.

Bootstrap 4 juga membutuhkan elemen container untuk membungkus konten situs. Ada dua kelas container yang bisa dipilih:



1. Kelas .container menyediakan container dengan lebar tetap yang responsive

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
</div>

</body>
</html>

```

2. Kelas `.container-fluid` menyediakan container lebar penuh, yang mencakup seluruh lebar viewport

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container-fluid class.</p>
  <p>The .container-fluid class provides a full width container, spanning the entire width of the viewport.</p>
</div>

</body>
</html>

```

Sistem Grid Bootstrap 4

Sistem grid Bootstrap dibangun dengan flexbox dan memungkinkan hingga 12 kolom di seluruh halaman. Jika kita tidak ingin menggunakan semua 12 kolom secara individual, Anda dapat mengelompokkan kolom bersama-sama untuk membuat kolom yang lebih luas.

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

Sistem grid bersifat responsif, dan kolom akan diatur ulang secara otomatis tergantung pada ukuran layar. Pastikan bahwa jumlahnya berjumlah 12 atau kurang (kita tidak perlu menggunakan semua 12 kolom yang tersedia).

Kelas Grid

Sistem grid Bootstrap 4 memiliki lima kelas:

- o .col- (perangkat ekstra kecil - lebar layar kurang dari 576 piksel)
- o .col-sm- (perangkat kecil - lebar layar sama dengan atau lebih besar dari 576 piksel)
- o .col-md- (perangkat sedang - lebar layar sama dengan atau lebih besar dari 768 piksel)
- o .col-lg- (perangkat besar - lebar layar sama dengan atau lebih besar dari 992px)
- o .col-xl- (perangkat xlarge - lebar layar sama dengan atau lebih besar dari 1200 piksel)

Kelas-kelas di atas dapat digabungkan untuk membuat tata letak yang lebih dinamis dan fleksibel.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Two Unequal Responsive Columns</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is less than 576px wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>
  </div>
</div>

</body>
</html>
```

Warna Teks

Warna Teks

Bootstrap 4 memiliki beberapa kelas kontekstual yang dapat digunakan untuk memberikan "makna melalui warna".

Kelas untuk warna teks adalah: `.text-muted`, `.text-primary`, `.text-success`, `.text-info`, `.text-warning`, `.text-hazard`, `.text-secondary`, `.text-white`, `.text-dark`, `.text-body` (warna body default / sering hitam) dan `.text-light`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Contextual Colors</h2>
  <p>Use the contextual classes to provide "meaning through colors":</p>
  <p class="text-muted">This text is muted.</p>
  <p class="text-primary">This text is important.</p>
  <p class="text-success">This text indicates success.</p>
  <p class="text-info">This text represents some information.</p>
  <p class="text-warning">This text represents a warning.</p>
  <p class="text-danger">This text represents danger.</p>
  <p class="text-secondary">Secondary text.</p>
  <p class="text-dark">This text is dark grey.</p>
  <p class="text-body">Default body color (often black).</p>
  <p class="text-light">This text is light grey (on white background).</p>
  <p class="text-white">This text is white (on white background).</p>
</div>

</body>
</html>
```

Warna Latar Belakang

Kelas untuk warna latar belakang adalah: `.bg-primary`, `.bg-success`, `.bg-info`, `.bg-warning`, `.bg-hazard`, `.bg-secondary`, `.bg-dark` dan `.bg-light`.

Perhatikan bahwa warna latar belakang tidak menyetel warna teks.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Contextual Backgrounds</h2>
  <p>Use the contextual background classes to provide "meaning through colors".</p>
  <p>Note that you can also add a .text-* class if you want a different text color:</p>
  <p class="bg-primary text-white">This text is important.</p>
  <p class="bg-success text-white">This text indicates success.</p>
  <p class="bg-info text-white">This text represents some information.</p>
  <p class="bg-warning text-white">This text represents a warning.</p>
  <p class="bg-danger text-white">This text represents danger.</p>
  <p class="bg-secondary text-white">Secondary background color.</p>
  <p class="bg-dark text-white">Dark grey background color.</p>
  <p class="bg-light text-dark">Light grey background color.</p>
</div>

</body>
</html>

```

Alert

Alert dibuat dengan kelas `.alert`, diikuti oleh salah satu kelas kontekstual `.alert-success`, `.alert-info`, `.alert-warning`, `.alert-hazard`, `.alert-primary`, `.alert-secondary`, `.alert-light` atau `.alert-dark`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Alerts</h2>
  <p>The button with class="close" and data-dismiss="alert" is used to close the alert box.</p>
  <p>The alert-dismissible class adds some extra padding to the close button.</p>
  <div class="alert alert-success alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Success!</strong> This alert box could indicate a successful or positive action.
  </div>
  <div class="alert alert-info alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Info!</strong> This alert box could indicate a neutral informative change or action.
  </div>
  <div class="alert alert-warning alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Warning!</strong> This alert box could indicate a warning that might need attention.
  </div>
  <div class="alert alert-danger alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Danger!</strong> This alert box could indicate a dangerous or potentially negative action.
  </div>
  <div class="alert alert-primary alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Primary!</strong> Indicates an important action.
  </div>
  <div class="alert alert-secondary alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Secondary!</strong> Indicates a slightly less important action.
  </div>
  <div class="alert alert-dark alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Dark!</strong> Dark grey alert.
  </div>
  <div class="alert alert-light alert-dismissible">
    <button type="button" class="close" data-dismiss="alert">&times;</button>
    <strong>Light!</strong> Light grey alert.
  </div>
</div>

</body>
</html>
```

Gambar

Bentuk citra dalam Bootstrap ada beberapa macam yaitu : rounded corner, circle dan thumbnail. Ubah nama file gambar sesuai dengan gambar yang anda miliki.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Rounded Corners</h2>
  <p>The .rounded class adds rounded corners to an image:</p>
  
  
  
</div>

</body>
</html>
```

Peletakan gambar dapat diatur rata kiri, kanan, tengah atau responsive (dengan kelas img-fluid)


```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Aligning images</h2>

  
  
  
  
</div>

</body>
</html>

```

Jumbotron

Jumbotron menunjukkan kotak abu-abu besar untuk meminta perhatian ekstra pada beberapa konten atau informasi khusus. Di dalam jumbotron Anda dapat meletakkan hampir semua HTML yang valid, termasuk elemen / kelas Bootstrap lainnya. Gunakan elemen <div> dengan kelas .jumbotron untuk membuat jumbotron.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <div class="jumbotron">
    <h1>Bootstrap Tutorial</h1>
    <p>Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.</p>
  </div>
  <p>This is some text.</p>
  <p>This is another text.</p>
</div>

</body>
</html>

```

Jika menginginkanjumbotron lebar penuh tanpa batas bulat, tambahkan kelas .jumbotron-fluid dan .container atau .container-fluid di dalamnya.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="jumbotron jumbotron-fluid">
  <div class="container">
    <h1>Bootstrap Tutorial</h1>
    <p>Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.</p>
  </div>
</div>

<div class="container">
  <p>This is some text.</p>
  <p>This is another text.</p>
</div>

</body>
</html>

```

Tombol

Bootstrap 4 menyediakan gaya tombol yang berbeda:

Basic Primary Secondary Success Info Warning Danger Dark Light [Link](#)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Styles</h2>
  <button type="button" class="btn">Basic</button>
  <button type="button" class="btn btn-primary">Primary</button>
  <button type="button" class="btn btn-secondary">Secondary</button>
  <button type="button" class="btn btn-success">Success</button>
  <button type="button" class="btn btn-info">Info</button>
  <button type="button" class="btn btn-warning">Warning</button>
  <button type="button" class="btn btn-danger">Danger</button>
  <button type="button" class="btn btn-dark">Dark</button>
  <button type="button" class="btn btn-light">Light</button>
  <button type="button" class="btn btn-link">Link</button>
</div>

</body>
</html>
```

Ukuran Tombol

Gunakan kelas `.btn-lg` untuk tombol besar atau kelas `.btn-sm` untuk tombol kecil

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Sizes</h2>
  <button type="button" class="btn btn-primary btn-lg">Large</button>
  <button type="button" class="btn btn-primary btn-md">Default</button>
  <button type="button" class="btn btn-primary btn-sm">Small</button>
</div>

</body>
</html>
```

Suatu tombol dapat diatur ke aktif (tampak ditekan) atau dinonaktifkan (tidak dapat diklik). Kelas `.active` membuat tombol tampak ditekan, dan atribut `disabled` membuat tombol tidak bisa diklik. Perhatikan bahwa elemen `<a>` tidak mendukung atribut `disabled` dan oleh karena itu harus menggunakan kelas `.disabled` agar terlihat nonaktif secara visual.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button States</h2>
  <button type="button" class="btn btn-primary">Primary Button</button>
  <button type="button" class="btn btn-primary active">Active Primary</button>
  <button type="button" class="btn btn-primary disabled">Disabled Primary</button>
  <a href="#" class="btn btn-primary disabled">Disabled Link</a>
</div>

</body>
</html>
```

Latihan

Buatlah tampilan form login menggunakan Bootstrap seperti pada gambar berikut

Login

E-Mail Address

Password

[Forgot Password?](#)

Show

☐ Remember Me

Login

Don't have an account? [Create One](#)