Dasar Pemrograman Web

Pertemuan Ke-10 (Bootstrap)

Noor Ifada

Email: noor.ifada@trunojoyo.ac.id

Scopus: <u>56590032100</u>

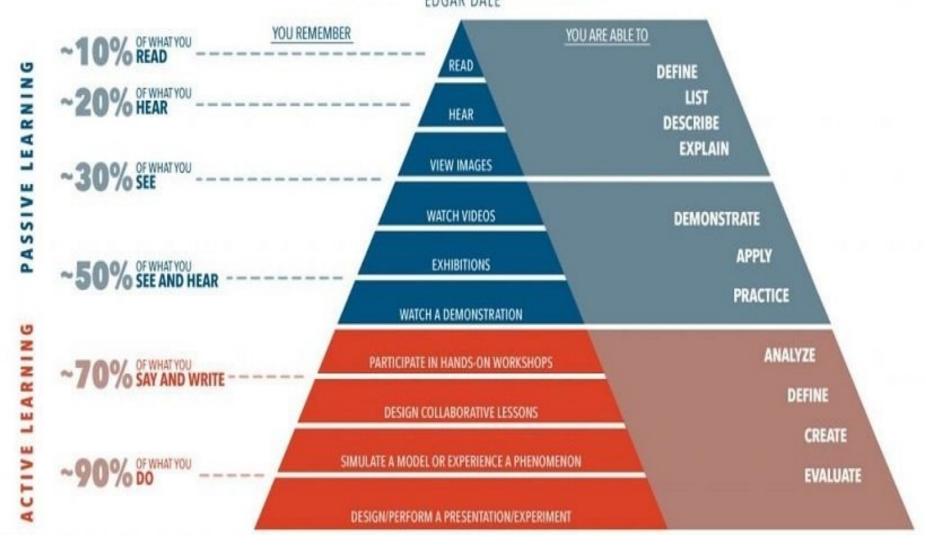
Google Scholar: Noor Ifada

ResearchGate: Noor-Ifada

Repository: Trunojoyoan

CONE OF EXPERIENCE





https://elearningindustry.com/







https://id.educations.com/articles-and-advice/soft-skills-you-need-to-get-ahead-14193

Tabu Bagi Mahasiswa Teknik Informatika

- Tidak dapat beradaptasi dengan (perkembangan) teknologi
- Tidak dapat membaca atau memahami instruksi
- Tidak dapat membuat program

LEARNING IS NEVER DONE WITHOUT ERRORS AND DEFEAT

VLADIMIR LENIN

PICTURE QUOTES . com

PICTUREQU * TES

Sub Pokok Bahasan

- Framework CSS
- Bootstrap
- Contoh Bootstrap Sederhana
- Sistem Kolom pada Bootstrap
- Teks (Typography)
- Tabel pada Bootstrap
- Tombol pada Bootstrap
- Form pada Bootstrap

Framework CSS

Fungsi dan Manfaat:

- Pengembangan Web dapat dilakukan dengan cepat
- Dapat diimplementasikan di berbagai web browser
- Membiasakan untuk menerapkan standar desain web yang baik
- Menghasilkan layout web yang rapi dan simetris
- Skrip yang dihasilkan menjadi productive, clean dan maintainable



Description	Most popular HTML, CSS, and JS framework	CSS framework based on Flexbox and built with Sass	Most advanced responsive front-end framework	CSS framework based on Material Design	A lightweight and modular front-end framework
Core concept	RWD and mobile first	RWD,mobile first, Modern free	RWD, mobile first, semantic	RWD and based on Google Material Design	RWD and mobile first
Unique Features	Card component, Jumbotron, Responsive navbar		Iconbar, Flex video, Pricing table	Scroll fire, Toast, Parallax,	Article, Cover, HTML editor
Browser Support (L) - Latest	() () () () () () () () () ()	C 6 10+	© Ø 0 0 L L L L L L P+ V4.4+	35+ 9+ 31+	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Javascript skill require	+ -	-	+	+	+ -
Learning Curve	Mild	Mild	Steep	Mild	Moderate
Documentation	★ ★ ★ ★ Excellent 🍪	★ ★ ★ ★ ★ Good @	★ ★ ★ ★ ★ Good @	★ ★ ★ ★ ★ Good @	★ ★ ★ ★ ↑
Companies using	(intel) Walmart *	Devin tonomir	Mebay Mode amazon	WD AvhanaHoolth	PouchNATION
Reference:					
https://getbootstrap.com/ https://bulma.io/ https://get.foundation/ https://materializecss.com/ https://getuikit.com/ https://getuikit.com/ https://getuikit.com/ https://bulitwith.com/ https://bulitwith.com/ https://buldephobia.com/					FREE THEMES

Image Source: https://themeselection.com/the-most-popular-css-framework-comparison/

Bootstrap

- Pertama kali dikembangkan oleh Mark Otto dan Jacob Thornton di Twitter pada tahun 2011
- Adalah front-end framework (HTML, CSS dan JavaScript) untuk menciptakan Responsive Web Design
- Responsif terhadap perangkat mobile → Mobile-first styles merupakan bagian dari framework utama
- Tutorial *Bootstrap*:

https://www.w3schools.com/bootstrap4/



Materi ini menggunakan versi Bootstrap 4

Contoh Bootstrap Sederhana

```
<!DOCTYPE html>
<html lang="en">
  <head>
   <title> Contoh Bootstrap </title>
   <meta charset="utf-8">
   <!-- to be responsive to mobile devices -->
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <!-- Latest compiled and minified CSS -->
   <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
   <!-- jQuery, Popper.js, dan JS plugins -->
   <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></scri</pre>
pt>
   <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.j
s"></script>
   <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js">
</script>
  </head>
  <body>
   <div class="container"> <!-- ATAU <div class="container-fluid"> -->
      Kami sedang belajar menggunakan <i>Bootstrap</i>
   </div>
  </body>
                                  Kami sedang belajar menggunakan Bootstrap
</html>
```

Elemen
yang
diperlukan
dalam
Bootstrap

Class
"container"
dan
"containerfluid"
menghasilkan
tampilan
yang berbeda

Hasil
tampilan
(jenis font

pasti bukan
Times New
Roman)

Sistem Kolom pada Bootstrap

Ukuran Kolom:

- .col- : perangkat berukuran extra small (ukuran screen < 576px)
- col-sm-: perangkat berukuran small (ukuran screen ≥ 576px)
- .col-md-: perangkat berukuran medium (ukuran *screen* \geq 768px)
- .col-lg- : perangkat berukuran large (ukuran screen \geq 992px)
- .col-xl- : perangkat berukuran extra large (ukuran screen \geq 1200px)

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
	spa	an 4		span 4 span 4				span 4			
	spa	n 4		span 8							
	span 6 span 6										
span 12											

Sistem Kolom pada Bootstrap [2]

```
<div class= "row">
   <div class="col-sm-1">span 1</div><div class="col-sm-1">span 1</div>
   <div class="col-sm-1">span 1</div><div class="col-sm-1">span 1</div>
</div>
<div class="row">
   <div class="col-sm-4">span 4</div><div class="col-sm-4">span 4</div>
   <div class="col-sm-4">span 4</div>
</div>
<div class="row">
   <div class="col-sm-4">span 4</div><div class="col-sm-8">span 8</div>
</div>
<div class="row">
   <div class="col-sm-6">span 6</div><div class="col-sm-6">span 6</div>
</div>
<div class="row">
   <div class="col-sm-12">span 12</div>
</div>
  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 6

span 4

span 4

span 8

span 4

span 4

span 6

span 12

Heading pada Bootstrap

```
<h1>h1 Heading 1 (40px)</h1>
<h2>h2 Heading 2 (32px)</h2>
<h3>h3 Heading 3 (28px)</h3>
<h4>h4 Heading 4 (24px)</h4>
<h5>h5 Heading 5 (20px)</h5>
<h6>h6 Heading 6 (16px)</h6>
```

h1 Heading 1 (40px)

h2 Heading 2 (32px)

h3 Heading 3 (28px)

h4 Heading 4 (24px)

h5 Heading 5 (20px)

h6 Heading 6 (16px)



Di dalam Bootstrap 4, secara default:

- Ukuran teks adalah 16px
- Jenis huruf adalah "Helvetica Neue", Helvetica, Arial, Sans-serif

Blockquote pada Bootstrap

Contoh quote:

No gain without pain

Konteks Warna pada Bootstrap

```
This text is muted.
This text is important.
This text indicates success.
This text represents some information.
This text represents a warning.
This text represents danger.
Secondary text.
Dark grey text.
Body text.
Body text.
This text is light grey(on white background).
This text is white (on white background).
```

This text is muted.

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

Secondary text.

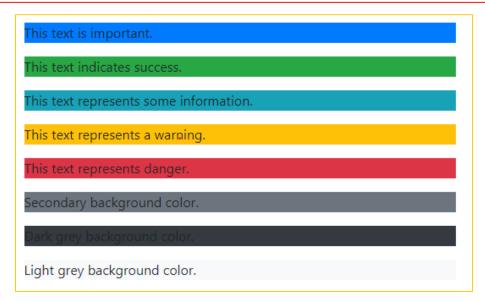
Dark grey text.

Body text.

This text is light grey(on white background).

Konteks Background

```
This text is important.
This text indicates success.
This text represents some information.
This text represents a warning.
This text represents danger.
Secondary background color.
Dark grey background color.
Light grey background color.
```



Tabel pada Bootstrap

```
Judul 1
                                                   Judul 2
<thead>
                                   Baris 1 Kolom 1
                                                   Baris 1 Kolom 2
   <t.r>
    Judul 1Judul 2
                                   Baris 2 Kolom 1
                                                   Baris 2 Kolom 2
   </t.r>
 </thead>
 \langle t.r \rangle
     Baris 1 Kolom 1Baris 1 Kolom 2
   \langle tr \rangle
      Baris 2 Kolom 1Baris 2 Kolom 2
```



Pilihan tampilan tabel:

- Basic: gunakan class .table
- Stripted: gunakan kombinasi class .table & .table-striped
- Bordered: gunakan kombinasi class .table & .table-bordered
- Hover: gunakan kombinasi class .table & .table-hover
- Dark: gunakan kombinasi class .table & .table-dark
- Borderless: gunakan kombinasi class .table & .table-borderless

Tombol pada Bootstrap

Basic Primary Secondary Success Info Warning Danger Dark Light Link

Ukuran Tombol:

- .btn-lg
- .btn-sm

Layout Form: Stacked (full-width)

Username:			
Password:			
Submit			

Layout Form: Inline

	1		
Username:	Password:	Submit	
	· ·		

Kontrol Form: Input

Username:			
Password:			

Kontrol Form: Radio Button

```
Pilihan:
```

- O Pilihan 1
- O Pilihan 2

```
<form>
  <label>Pilihan:

    Pilihan 3

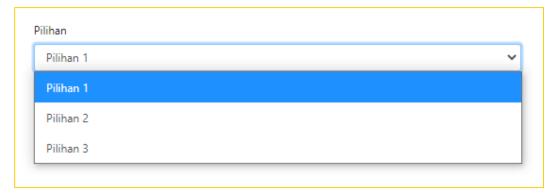
  <div class="form-check">
   <label>
     <input type="radio" class="form-check-input" name="pil1">Pilihan 1
   </label>
  </div>
  <div class="form-check">
   <label>
     <input type="radio" class="form-check-input" name="pil2">Pilihan 2
   </label>
  </div>
  <div class="form-check">
   <label>
     <input type="radio" class="form-check-input" name="pil3">Pilihan 3
   </label>
  </div>
</form>
```



Pilihan tampilan radio button:

- Stacked: menggunakan class .form-check
- Inline: menggunakan class .form-check-inline

Daftar Dropdown pada Bootstrap





Jika user diijinkan untuk memilih lebih dari satu pilihan, maka tambahkan atribut multiple di dalam elemen select

Kontrol Form: Checkbox

```
    Pilihan 1

Pilihan 2

    Pilihan 3
```

Pilihan:

```
<form>
  <label>Pilihan:</label>
  <div class="form-check">
   <label>
     <input type="checkbox" class="form-check-input" name="pil1">Pilihan 1
   </label>
  </div>
  <div class="form-check">
   <label>
     <input type="checkbox" class="form-check-input" name="pil2">Pilihan 2
   </label>
  </div>
  <div class="form-check">
   <label>
     <input type="checkbox" class="form-check-input" name="pil3">Pilihan 3
   </label>
  </div>
</form>
```



Pilihan tampilan checkbox:

- Stacked: menggunakan class .form-check
- Inline: menggunakan class .form-check-inline

Kontrol Form: Text Area

Comment:	
	//

Challenge #1

Ubah tampilan halaman web (hasil) TM2 Anda dengan menggunakan Bootstrap (cek dokumen Workshop pertemuan ke-10)!

Video Perkuliahan

- Penjelasan materi kuliah dapat dilihat via YouTube (recording Semester Genap 2020/2021): https://youtu.be/0ddAJNIIVqk
- Note: Kerjakan Challenge(s) berdasarkan slide Semester Genap 2022/2023 (bukan berdasarkan slide yang ditampilkan dalam recording Semester Genap 2020/2021)

