

PEMOGRAMAN FRAMEWORK



BOOTSTRAP BASIC + CONTOH KASUS

TAMUS TAHIR

2020

BOOTSRAP

DEFINISI

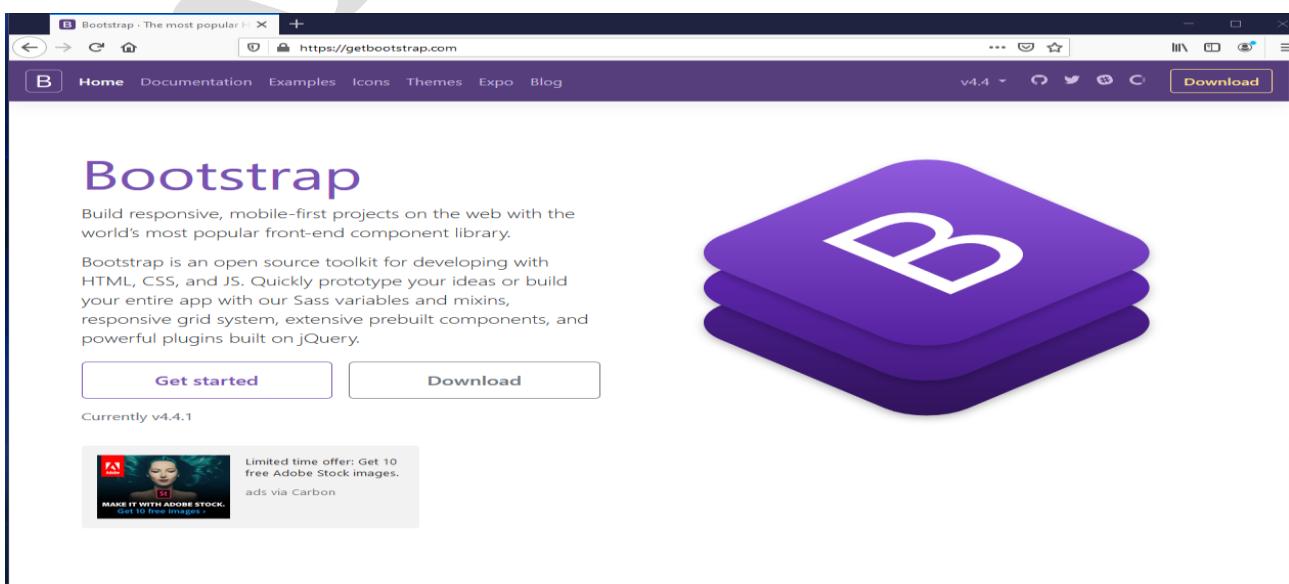
Bootstrap adalah kerangka kerja CSS yang open source untuk merancang situs web dan aplikasi web. Kerangka kerja ini berisi templat desain berbasis HTML dan CSS untuk tipografi, formulir, tombol, navigasi, dan komponen antarmuka lainnya, serta juga ekstensi opsional JavaScript. Tidak seperti kebanyakan kerangka kerja web lainnya, kerangka kerja ini hanya fokus pada pengembangan front-end saja. Untuk mempelajari bootstrap kita akan selalu mengunjungi documnetasinya pada websitenya, dikarenakan class pada bootstrap sangat banyak dan tidak untuk dihapal.

FUNGSI

1. Bootstrap akan membantu dalam membuat dan merancang situs web yang cepat dan responsif. Artinya, tampilan web yang dibangun memakai bootstrap akan secara otomatis menyesuaikan ukuran layar di browser.
2. Bootstrapping juga akan membantu dalam menciptakan dan mengembangkan situs web yang dinamis atau statis. Anda hanya perlu menentukan sesuai dengan kebutuhan Anda.
3. Bootstrap sudah menyediakan berbagai antarmuka kelas yang berguna untuk membantu situs web menjadi ringan dan cepat saat diakses.
4. Bootstrap juga membantu dalam membuat pengaturan tata letak halaman di situs web. Ini karena bootstrap dilengkapi dengan fitur yang disebut kisi.
5. Anda juga dapat langsung menambahkan CSS dan kelas sendiri. Dengan begitu, Anda bisa mendesain situs web Anda sehingga memiliki tampilan yang lebih bervariasi.

INSTALL ONLINE ➔

1. Kunjungi website bootstrap <https://getbootstrap.com>



2. Pilih get start dan copy script pada starter template ke text editor

The screenshot shows the Bootstrap Documentation website. On the left, there's a sidebar with 'Getting started' sections like Introduction, Download, Contents, and various tools. The main content area is titled 'Starter template' and contains a code snippet for a basic HTML page. A 'Copy' button is located in the top right corner of the code block. To the right of the main content, there's a sidebar with links for 'Quick start', 'CSS', 'JS', 'Starter template', and other Bootstrap-related topics.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-VwqoV3AgAOqQ4i5WjONsa31DQ8FVtsQ+YR4ILgA6TWSqzZ95InEJisW3S4oQ==" crossorigin="anonymous" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6qa4f&lt;...&gt;" crossorigin="anonymous">
      <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-9eNlDS4d18SD0txZMHCkf0J8v8C3C4P0J5DwA0q6AFWfOOGGtD99uHdE7Dm96P&lt;...&gt;" crossorigin="anonymous">
        <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js" integrity="sha384-i>" crossorigin="anonymous">
    </script>
  </body>
</html>
```

3. Index.html

The screenshot shows a code editor with a dark theme. The file 'index.html' is open in the 'EXPLORER' sidebar. The code in the editor is identical to the one shown in the previous screenshot, demonstrating the copied content.

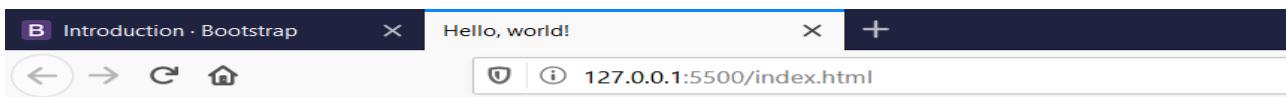
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCKR/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KKN" crossorigin="anonymous">
      <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhUh9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anonymous">
        <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSFFWpiMquVdAyjuar5+76PVCMyl" crossorigin="anonymous">
    </script>
  </body>
</html>
```

4. Test browser (abaikan urlnya disini saya gunakan live server plugins dari vs code)
5. Laptop wajib terkoneksi dengan internet, karena file bootstrap di dapat dari internet



Hello, world!

INSTALL OFFLINE

1. Kunjungi website bootstrap <https://getbootstrap.com> dan pilih download

The screenshot shows a web browser displaying the Bootstrap documentation at <https://getbootstrap.com/docs/4.4/getting-started/download/>. The page title is "Compiled CSS and JS". On the left, there's a sidebar with "Getting started" navigation. The main content area describes "Compiled CSS and JS" and lists what it includes: "Compiled and minified CSS bundles" and "Compiled and minified JavaScript plugins". It also notes that it doesn't include documentation, source files, or optional JavaScript dependencies. A large "Download" button is prominent. To the right, there's a sidebar with links for "Compiled CSS and JS", "Source files", "BootstrapCDN", "Package managers" (with sub-links for npm, yarn, RubyGems, Composer, and NuGet).

2. Pada compile CSS and JS pilih download
3. Berikut struktur file pada bootstrap

Precompiled Bootstrap

Once downloaded, unzip the compressed folder and you'll see something like this:

```
bootstrap/
├── css/
│   ├── bootstrap-grid.css
│   ├── bootstrap-grid.css.map
│   ├── bootstrap-grid.min.css
│   ├── bootstrap-grid.min.css.map
│   ├── bootstrap-reboot.css
│   ├── bootstrap-reboot.css.map
│   ├── bootstrap-reboot.min.css
│   ├── bootstrap-reboot.min.css.map
│   ├── bootstrap.css
│   ├── bootstrap.css.map
│   ├── bootstrap.min.css
│   └── bootstrap.min.css.map
└── js/
    ├── bootstrap.bundle.js
    ├── bootstrap.bundle.js.map
    ├── bootstrap.bundle.min.js
    ├── bootstrap.bundle.min.js.map
    ├── bootstrap.js
    ├── bootstrap.js.map
    ├── bootstrap.min.js
    └── bootstrap.min.js.map
```

4. Pilih documentation → get start dan copy script pada starter template ke text editor

The screenshot shows the Bootstrap Documentation website. The top navigation bar includes links for Home, Documentation (which is the active page), Examples, Icons, Themes, Expo, and Blog. A search bar is at the top left. On the right, there are download options for v4.4 and social media links. The main content area is titled "Starter template". It contains a brief description: "Be sure to have your pages set up with the latest design and development standards. That means using an HTML5 doctype and including a viewport meta tag for proper responsive behaviors. Put it all together and your pages should look like this:" followed by a code snippet. A "Copy" button is located to the right of the code. To the right of the main content, there's a sidebar with links to "Quick start", "CSS", "JS", "Starter template", "Important globals", "HTML5 doctype", "Responsive meta tag", "Box-sizing", "Reboot", and "Community". The sidebar also has a "Search..." input field.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css" integrity="sha384-B00dDf/j1OoIzsdwJQWfZlqfFkqZKtMjLmVZnqXZcZPfZJH&lt;!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6qa4f&lt;!-- Popper.js -->
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-9&lt;!-- Bootstrap JS -->
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js" integrity="sha384-i&lt;!-->
  </body>
</html>
```

5. Index.html

The screenshot shows a dark-themed text editor with an "EXPLORER" sidebar on the left containing a "BOOTSTRAP" folder with an "index.html" file. The main editor area displays the copied HTML code from the Bootstrap documentation. The code is identical to the one shown in the previous screenshot, including the Bootstrap CSS link and the three required JavaScript files (jQuery, Popper.js, and Bootstrap JS).

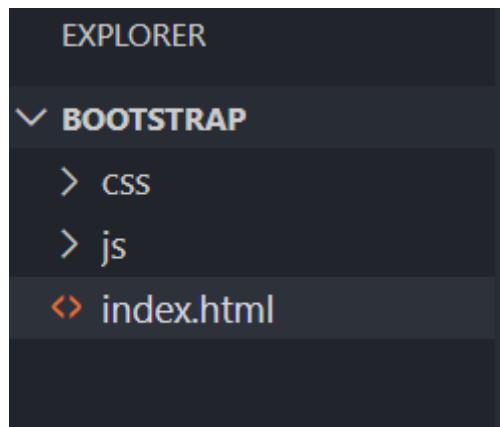
```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQiaoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous">
    </script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anonymous">
    </script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSffFWpi1MquVdAyjUar5+76PVCmYl" crossorigin="anonymous">
    </script>
  </body>
```

6. Extract dan copy file bootstrap yang telah di download ke dalam folder project
7. Di dalamnya terdapat 2 folder css dan js



8. Ganti pemanggilan filenya yang tadinya online dengan pemanggilan file secara local
9. Link css → kita dapat gunakan bootstrap.min.css atau bootstrap.css

```

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="css/bootstrap.min.css">

```

10. Link js → kita dapat gunakan bootstrap.min.js atau bootstrap.js

```

</script>
<script src="js/bootstrap.min.js"></script>

```

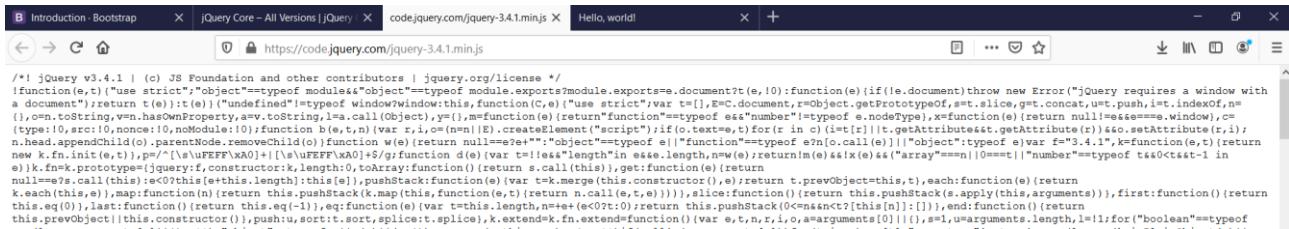
11. jQuery → visit <https://code.jquery.com/jquery/>

12. Pilih uncompressen atau minified versi 3.4.1 (versi 3.5 akan mengalami bug pada navbar bootstrap). Klik kanan dan open new tab

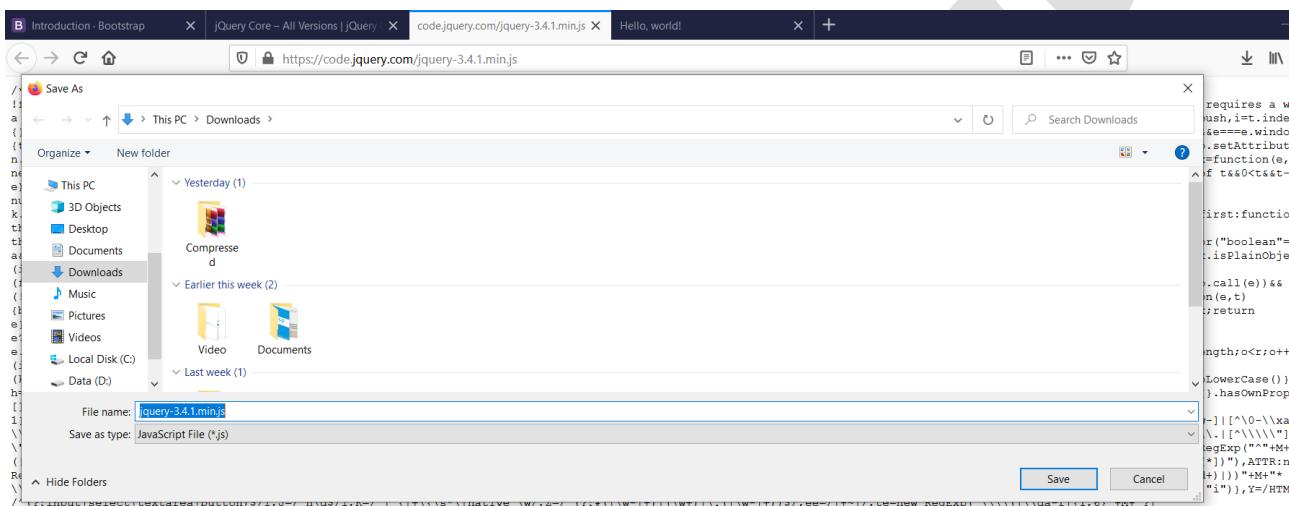
The screenshot shows a browser window with three tabs: 'Introduction - Bootstrap', 'jQuery Core - All Versions | jQuery', and 'Hello, world!'. The main content area displays the 'jQuery Core - All Versions' page from StackPath. It features a header with the StackPath logo and navigation links for 'jQuery Core & Migrate - Git Builds' and 'jQuery Core - All 3.x Versions'. Below this, it lists several build options for jQuery Core, including 'jQuery git build - uncompressed, minified, slim, slim minified' and 'jQuery 3.x git build - uncompressed, minified, slim, slim minified'. At the bottom, it shows 'jQuery Core 3.5.0 - uncompressed, minified, slim, slim minified' and 'jQuery Core 3.4.1 - uncompressed, minified, slim, slim minified'.

13. Jangan gunakan versi slim karena kita tidak bisa menggunakan ajax (Asynchronous JavaScript and XMLHTTP), berguna untuk pertukaran data pada website tanpa reload sebuah halaman (untuk saat ini abaikan).

14. Kita akan gunakan versi yang sudah di compress



15. Klik kanan pada browser dan pilih save page as



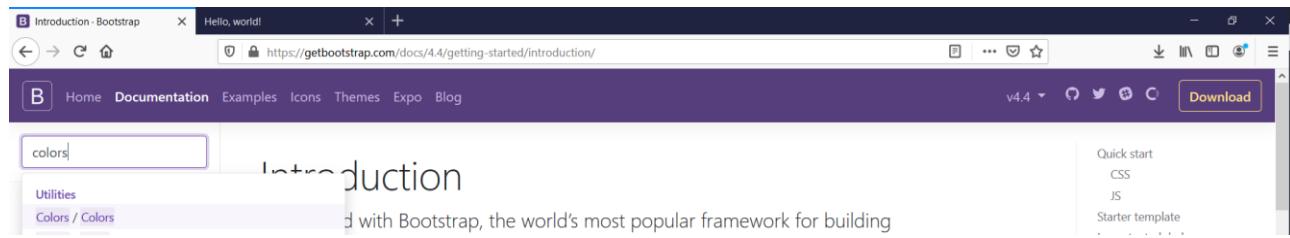
16. Copy file tersebut pada folder project → js, dan lakukan pemanggilan filenya



17. Untuk link popper dapat dihapus

COLORS

1. Pada menu search masukan keyword colors



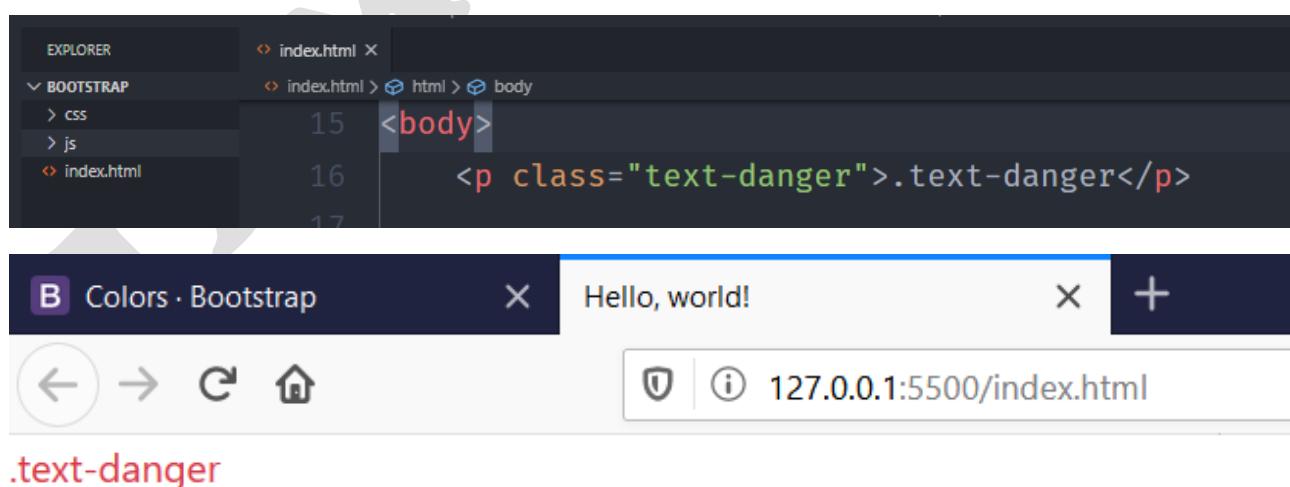
The screenshot shows a web browser window with the URL <https://getbootstrap.com/docs/4.4/getting-started/introduction/>. The browser's address bar also has 'colors' typed into it. The page content is the 'Introduction' section of the 'Colors' documentation, featuring several color swatches and text samples.

2. Bootstrap menyediakan beberapa warna dasar (jika ingin warna lain gunakan css manual)
3. Berikut nama class untuk text-color



The screenshot shows a list of Bootstrap text color classes. Each class is represented by a red `p` tag containing the class name followed by the text 'text-' and the class name again. The classes listed are: `text-primary`, `text-secondary`, `text-success`, `text-danger`, `text-warning`, `text-info`, `text-light bg-dark`, `text-dark`, `text-body`, `text-muted`, `text-white bg-dark`, `text-black-50`, and `text-white-50 bg-dark`. A 'Copy' button is located in the top right corner of the code block.

4. Coba pilih salah satu atau boleh juga semua, copy script tersebut ke text editor



The screenshot shows a code editor (VS Code) with an open file named `index.html`. The code editor displays the following HTML snippet:

```
<body>
<p class="text-danger">.text-danger</p>
```

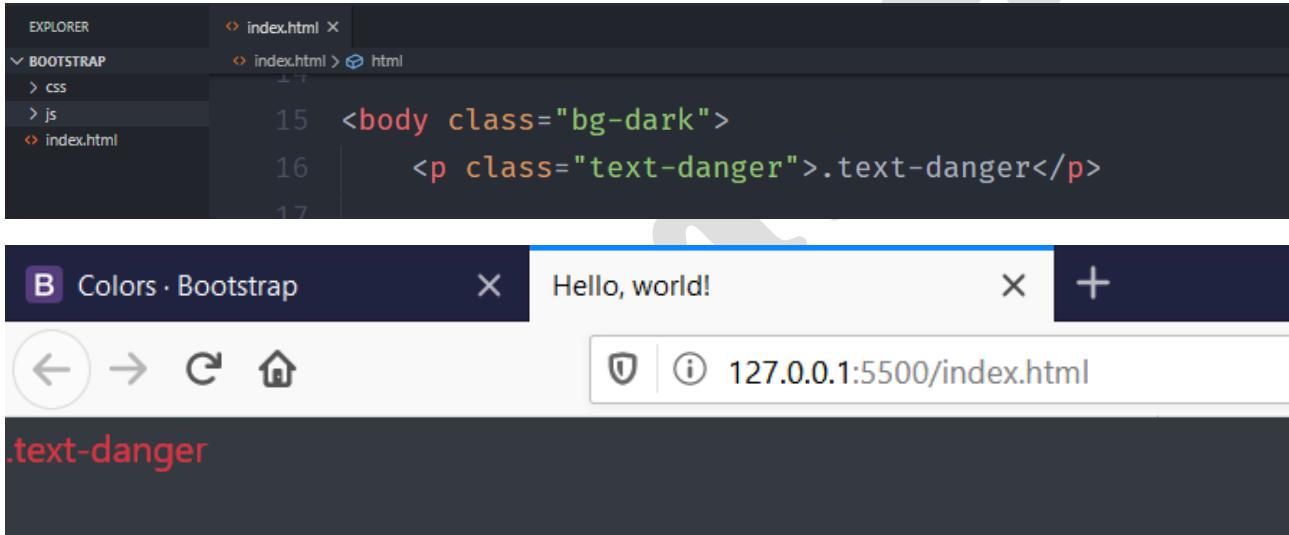
The code editor interface includes an Explorer sidebar on the left showing a 'BOOTSTRAP' folder with 'css' and 'js' subfolders, and a file tree with 'index.html'. The bottom part of the screenshot shows a browser window titled 'Colors · Bootstrap' displaying the text '.text-danger'.

5. Background color

```
<div class="p-3 mb-2 bg-primary text-white">.bg-primary</div>
<div class="p-3 mb-2 bg-secondary text-white">.bg-secondary</div>
<div class="p-3 mb-2 bg-success text-white">.bg-success</div>
<div class="p-3 mb-2 bg-danger text-white">.bg-danger</div>
<div class="p-3 mb-2 bg-warning text-dark">.bg-warning</div>
<div class="p-3 mb-2 bg-info text-white">.bg-info</div>
<div class="p-3 mb-2 bg-light text-dark">.bg-light</div>
<div class="p-3 mb-2 bg-dark text-white">.bg-dark</div>
<div class="p-3 mb-2 bg-white text-dark">.bg-white</div>
<div class="p-3 mb-2 bg-transparent text-dark">.bg-transparent</div>
```

Copy

6. Pilih salah satu background dan pilih copy nama classnya



The screenshot shows a browser window with a dark theme. The address bar says "Colors · Bootstrap" and the URL is "127.0.0.1:5500/index.html". The page content is a dark gray box containing the text ".text-danger". Above the browser, the file structure in the Explorer panel shows "index.html" under "BOOTSTRAP > css". The code in "index.html" includes:

```
15  <body class="bg-dark">
16      <p class="text-danger">.text-danger</p>
17
```

BUTTON

1. Pada menu search masukan keyword button

The screenshot shows the Bootstrap Buttons documentation page. On the left, there's a sidebar with navigation links for Getting started, Layout, Content, Components (Buttons), and other components like Alerts, Badge, Breadcrumb, etc. The main content area has a title "Examples" and a sub-section about predefined button styles. It shows a row of buttons labeled Primary, Secondary, Success, Danger, Warning, Info, Light, Dark, and Link. Below the buttons is a code block with their corresponding HTML and CSS classes.

```
<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-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

2. Button tags → (link dan submit button)

The screenshot shows the Bootstrap Button tags documentation page. The sidebar includes links for Getting started, Layout, Content, Components (Buttons), and other components. The main content area has a title "Button tags" and a paragraph explaining the use of .btn classes on <a>, <button>, and <input> elements. It shows a row of buttons labeled Link, Button, Input, Submit, and Reset. Below the buttons is a code block with their corresponding HTML and CSS classes.

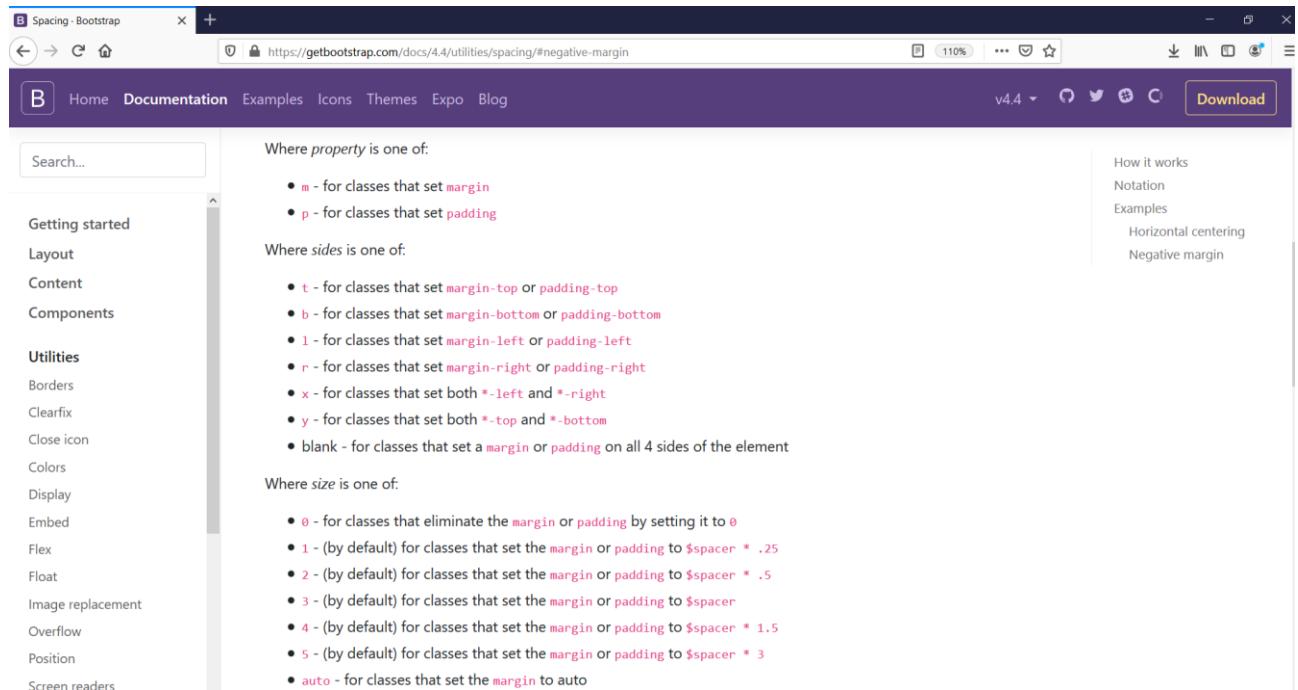
```
<a class="btn btn-primary" href="#" role="button">Link</a>
<button class="btn btn-primary" type="button">Button</button>
<input class="btn btn-primary" type="button" value="Input">
<input class="btn btn-primary" type="submit" value="Submit">
<input class="btn btn-primary" type="reset" value="Reset">
```

3. Outline button

The screenshot shows the Bootstrap Outline buttons documentation page. The sidebar includes links for Getting started, Layout, Content, Components (Buttons), and other components. The main content area has a title "Outline buttons" and a note about removing background colors. It shows a row of buttons labeled Primary, Secondary, Success, Danger, Warning, Info, and Dark. Below the buttons is a code block with their corresponding HTML and CSS classes.

```
<button type="button" class="btn btn-outline-primary">Primary</button>
<button type="button" class="btn btn-outline-secondary">Secondary</button>
<button type="button" class="btn btn-outline-success">Success</button>
<button type="button" class="btn btn-outline-danger">Danger</button>
<button type="button" class="btn btn-outline-warning">Warning</button>
<button type="button" class="btn btn-outline-info">Info</button>
<button type="button" class="btn btn-outline-light">Light</button>
<button type="button" class="btn btn-outline-dark">Dark</button>
```

MARGIN DAN PADDING



The screenshot shows the official Bootstrap documentation for 'Spacing' at <https://getbootstrap.com/docs/4.4/utilities/spacing/#negative-margin>. The page includes a sidebar with navigation links like Home, Documentation, Examples, Icons, Themes, Expo, and Blog. The main content area contains several lists of CSS classes and their descriptions related to margin and padding.

- Where *property* is one of:
 - **m** - for classes that set `margin`
 - **p** - for classes that set `padding`
- Where *sides* is one of:
 - **t** - for classes that set `margin-top` or `padding-top`
 - **b** - for classes that set `margin-bottom` or `padding-bottom`
 - **l** - for classes that set `margin-left` or `padding-left`
 - **r** - for classes that set `margin-right` or `padding-right`
 - **x** - for classes that set both `*-left` and `*-right`
 - **y** - for classes that set both `*-top` and `*-bottom`
 - blank - for classes that set a `margin` or `padding` on all 4 sides of the element
- Where *size* is one of:
 - **0** - for classes that eliminate the `margin` or `padding` by setting it to `0`
 - **1** - (by default) for classes that set the `margin` or `padding` to `$spacer * .25`
 - **2** - (by default) for classes that set the `margin` or `padding` to `$spacer * .5`
 - **3** - (by default) for classes that set the `margin` or `padding` to `$spacer`
 - **4** - (by default) for classes that set the `margin` or `padding` to `$spacer * 1.5`
 - **5** - (by default) for classes that set the `margin` or `padding` to `$spacer * 3`
 - **auto** - for classes that set the `margin` to `auto`

On the right side of the page, there are links to 'How it works', 'Notation', 'Examples', 'Horizontal centering', and 'Negative margin'.

Contoh penggunaan (ukuran yang disediakan bootstrap 0-5)

- | | |
|-----------|---|
| ✓ mt-2 | ➔ margin top ukuran 2 |
| ✓ p-5 | ➔ padding ukuran 5 |
| ✓ my-3 | ➔ margin atas dan bawah ukuran 5 |
| ✓ px-auto | ➔ margin kiri dan kanan ukuran otomatis |

TABLES

1. Pada menu search masukan keyword table
2. Gunakan class table untuk membuat tabelnya menarik

The screenshot shows the Bootstrap 4 documentation page for tables. On the left, there's a sidebar with navigation links like Home, Documentation, Examples, Icons, Themes, Expo, and Blog. The main content area displays a table with four columns: #, First, Last, and Handle. The rows are striped. Below the table is its corresponding HTML code.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

```
<table class="table">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">First</th>
<th scope="col">Last</th>
<th scope="col">Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mark</td>
<td>Otto</td>
<td>@mdo</td>
</tr>
<tr>
<td>2</td>
<td>Jacob</td>
<td>Thornton</td>
<td>@fat</td>
</tr>
<tr>
<td>3</td>
<td>Larry</td>
<td>the Bird</td>
<td>@twitter</td>
</tr>
</tbody>
</table>
```

3. Striped row → row ganjil akan memiliki warna berbeda dengan row genap

The screenshot shows the Bootstrap 4 documentation for striped rows. It features a sidebar with navigation links. The main content area displays a table with four columns: #, First, Last, and Handle. The rows are striped. Below the table is its corresponding HTML code.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

```
<table class="table table-striped">
<thead>
```

4. Bordered table → full border pada tabel

The screenshot shows the Bootstrap 4 documentation for bordered tables. It features a sidebar with navigation links. The main content area displays a table with four columns: #, First, Last, and Handle. The table has a full border around it. Below the table is its corresponding HTML code.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```
<table class="table table-bordered">
```

LAYOUT

1. Untuk layout pada bootstrap menggunakan css flex dimana bootstrap membagi layar menjadi 12 column
2. Layout digunakan untuk mengatur tampilan pada desktop, tablet dan hp agar responsive
3. Berikut nama class dan ukuran layoutnya

The screenshot shows the Bootstrap Documentation page for the Grid system. At the top, there's a navigation bar with links for Home, Documentation (which is active), Examples, Icons, Themes, Expo, and Blog. To the right of the navigation is a version indicator 'v4.4' and social media sharing icons. Below the navigation is a search bar labeled 'Search...'. The main content area has a sidebar on the left with links to Getting started, Layout, Overview, Grid, Utilities for layout, Content, Components, Utilities, Extend, Migration, and About. The main content area contains a table titled 'See how aspects of the Bootstrap grid system work across multiple devices with a handy table.' The table has columns for 'Extra small' (<576px), 'Small' (≥576px), 'Medium' (≥768px), 'Large' (≥992px), and 'Extra large' (≥1200px). It includes rows for 'Max container width', 'Class prefix', '# of columns', 'Gutter width', 'Nestable', and 'Column ordering'. To the right of the table is a vertical sidebar with links to various Bootstrap components and concepts, such as How Grid works, Auto-columns, Equal-width, Equal-height, Media queries, Selections, Variables, Colors, Responsiveness, All components, Static components, Horizontal components, Miscellaneous, Guidelines, and Root components.

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

4. Kita juga dapat mengatur tampilannya dengan css manual dengan media query

The screenshot shows the Bootstrap Documentation page for Responsive Breakpoints. The sidebar on the left lists the same categories as the previous screenshot. The main content area features a section titled 'Responsive breakpoints' with a sub-section 'Containers' containing links to All-in-one, Fluid, Responsive, Responsive breakpoints, and Z-index. The main content area contains text explaining that Bootstrap uses media queries to create breakpoints for layouts and interfaces, based on minimum viewport widths. It also states that Bootstrap primarily uses media query ranges for its layout, grid system, and components. Below this is a code block showing the CSS for the breakpoints:

```
// Extra small devices (portrait phones, less than 576px)
// No media query for 'xs' since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

5. Untuk lebih detailnya akan kita buat pada studi kasusnya

MEMBUAT STATIC WEBSITE DENGAN BOOTSTRAP

STARTER TEMPLATE

The screenshot shows a code editor with the file 'index.html' open. The code is a basic HTML template for a website. It includes meta tags for character encoding and viewport, a title, and links to Bootstrap's CSS and JS files. The code editor has a dark theme and shows the file structure on the left.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="css/bootstrap.min.css">
  </head>
  <body>
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="js/jquery-3.4.1.min.js"></script>
    <script src="js/bootstrap.min.js"></script>
  </body>
</html>
```

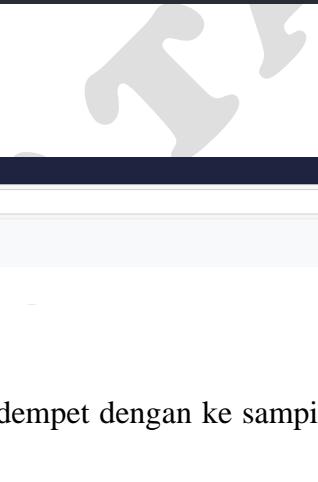
NAVBAR

1. Pada menu search masukan keyword navbar dan pilih script navbar yang simple

The screenshot shows a browser window displaying the Bootstrap documentation at <https://getbootstrap.com/docs/4.4/components/navbar/>. The page features a purple header with navigation links like Home, Documentation, Examples, Icons, Themes, Expo, and Blog. The main content area shows the 'Navbar' component with its code example. To the right, there are sections for 'How it works' and 'Supported content'.

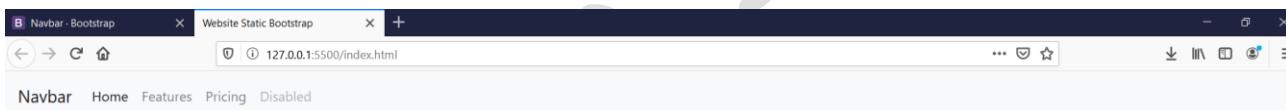
How it works
Supported content
Brand
Nav
Forms
Text
Color schemes
Containers
Placement
Responsive behaviors
Toggler
External content

2. Text editor

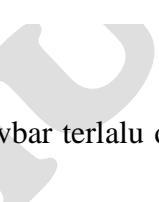


```
EXPLORER index.html
BOOTSTRAP > css > js index.html
15  <body>
16
17  <!-- navbar -->
18  <nav class="navbar navbar-expand-lg navbar-light bg-light">
19      <a class="navbar-brand" href="#">Navbar</a>
20      <button class="navbar-toggler" type="button" data-toggle="collapse"
21          data-target="#navbarNavAltMarkup"
22          aria-controls="navbarNavAltMarkup" aria-expanded="false"
23          aria-label="Toggle navigation">
24          <span class="navbar-toggler-icon"></span>
25      </button>
26      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
27          <div class="navbar-nav">
28              <a class="nav-item nav-link active" href="#">Home <span
29                  class="sr-only">(current)</span></a>
30              <a class="nav-item nav-link" href="#">Features</a>
31              <a class="nav-item nav-link" href="#">Pricing</a>
32              <a class="nav-item nav-link disabled" href="#" tabindex="-1"
33                  aria-disabled="true">Disabled</a>
34          </div>
35      </div>
36  </nav>
37  <!-- end navbar -->
```

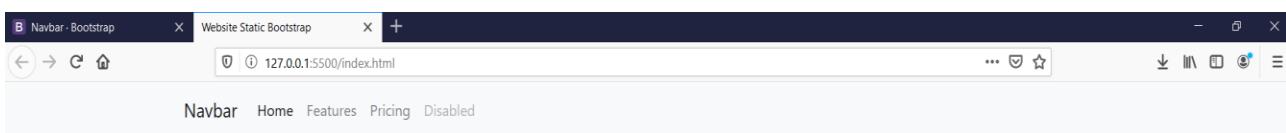
3. Browser



4. Disini terlihat posisi navbar terlalu dempet dengan ke samping, bungkus isi dari tag nav ke dalam class container



```
EXPLORER index.html
BOOTSTRAP > css > js index.html
16
17  <!-- navbar -->
18  <nav class="navbar navbar-expand-lg navbar-light bg-light">
19      <div class="container">
20          <a class="navbar-brand" href="#">Navbar</a>
21      <button class="navbar-toggler" type="button" data-toggle="collapse"
22          data-target="#navbarNavAltMarkup"
23          aria-controls="navbarNavAltMarkup" aria-expanded="false"
24          aria-label="Toggle navigation">
25      </button>
26          <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
27              <div class="navbar-nav">
28                  <a class="nav-item nav-link active" href="#">Home <span
29                      class="sr-only">(current)</span></a>
30                  <a class="nav-item nav-link" href="#">Features</a>
31                  <a class="nav-item nav-link" href="#">Pricing</a>
32                  <a class="nav-item nav-link disabled" href="#" tabindex="-1"
33                      aria-disabled="true">Disabled</a>
34              </div>
35          </div>
36      </div>
37  <!-- end navbar -->
```



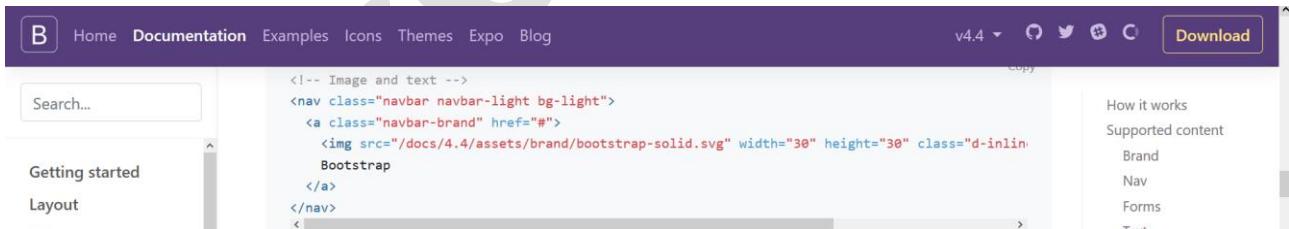
- Mengganti background (jika backgroundnya berwarna gelap gunakan navbar-dark agar tulisannya berwarna putih dan jika backgroundnya berwarna terang gunakan navbar-light)
- Class background sudah dijelaskan

The image shows a code editor interface with the Bootstrap CSS file 'index.html' open. A specific line of code, '`<nav class="navbar navbar-expand-lg navbar-dark bg-dark">`', is highlighted in blue. This line defines a dark navigation bar. Below the code editor is a browser window displaying the result of this code. The navigation bar is dark with white text ('Navbar', 'Home', 'Features', 'Pricing', 'Disabled').

- Jika ingin menu navigasinya berada pada sebelah kanan tambahkan class ml-auto pada navbar-nav

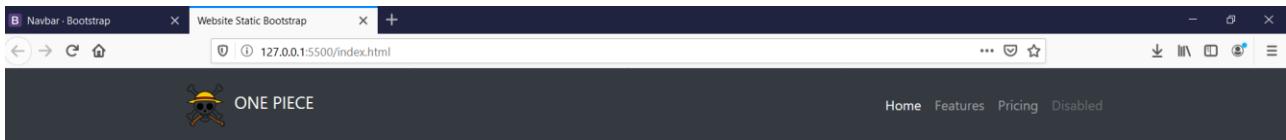
The image shows a code editor interface with the Bootstrap CSS file 'index.html' open. A specific line of code, '`<div class="collapse navbar-collapse" id="navbarNavAltMarkup">`', is highlighted. Within this block, the 'class="ml-auto"' attribute is added to the 'navbar-nav' class. This causes the navigation items to be aligned to the right. Below the code editor is a browser window displaying the result. The navigation bar has a single item 'Home' which is active and includes a '(current)' status indicator.

- Mengganti tulisan navbar dengan logo → navbar → brand

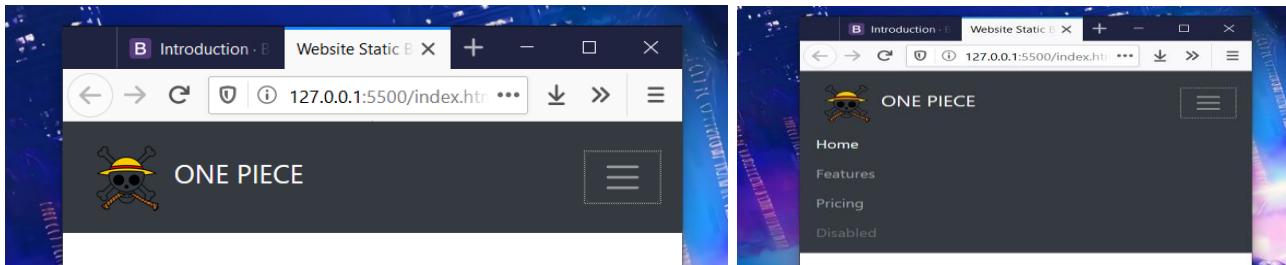


- Buat folder baru dan masukan gambar logo

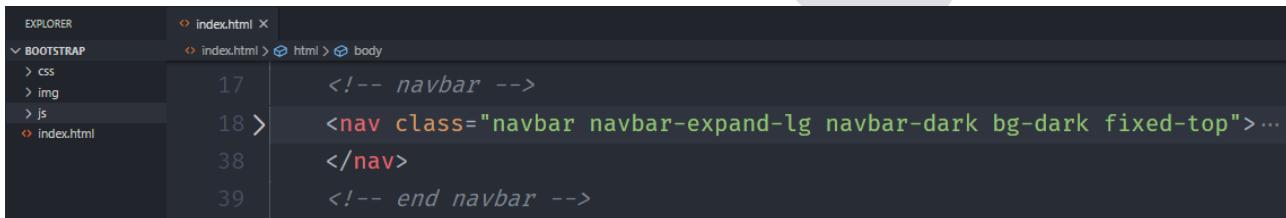
The image shows a code editor interface with the Bootstrap CSS file 'index.html' open. The code includes a line '``'. This line adds a logo to the navigation bar. The logo is currently represented by a placeholder image named 'logo.png'. The rest of the code is standard Bootstrap navigation bar setup.



10. Coba perkecil browsernya, menu akan dihidden dan akan muncul hamburger menu yang jika diklik menunya akan tampil



11. Tambahkan class fixed-top ➔ Ketika di scroll navbarnya akan diam
 12. Untuk saat ini belum bisa di tes karena isi konten belum ada



CAROUSEL

1. Pada menu search masukan keyword carousel dan pilih with captions, copy ke text editor

With captions

Add captions to your slides easily with the `.carousel-caption` element within any `.carousel-item`. They can be easily hidden on smaller viewports, as shown below, with optional `display utilities`. We hide them initially with `.d-none` and bring them back on medium-sized devices with `.d-md-block`.

Third slide

Third slide label

Praesent commodo cursus magna, vel scelerisque nisl consectetur.

How it works

Example

Slides only

With controls

With indicators

With captions

Crossfade

Individual `.carousel-item` interval

Usage

Via data attributes

Via JavaScript

Options

Methods

- `.carousel(options)`
- `.carousel('cycle')`
- `.carousel('pause')`
- `.carousel('number')`
- `.carousel('prev')`
- `.carousel('next')`
- `.carousel('dispose')`

Events

Change transition

EXPLORER index.html

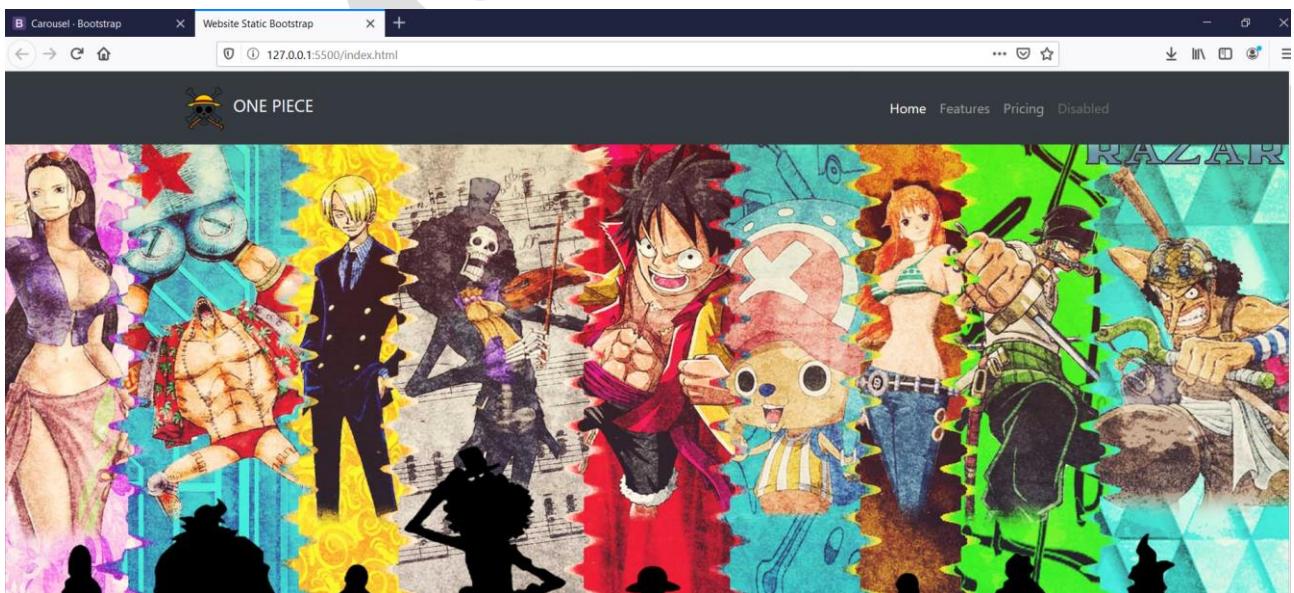
```
<!-- header -->
<div id="carouselExampleCaptions" class="carousel slide"
      data-ride="carousel">...
</div>
<!-- end header -->
```

2. Disini carouselnya belum tampil karena gambarnya belum ada
3. Cari gambar landscape dan masukan ke folder img, dan lakukan pemanggilan gambar

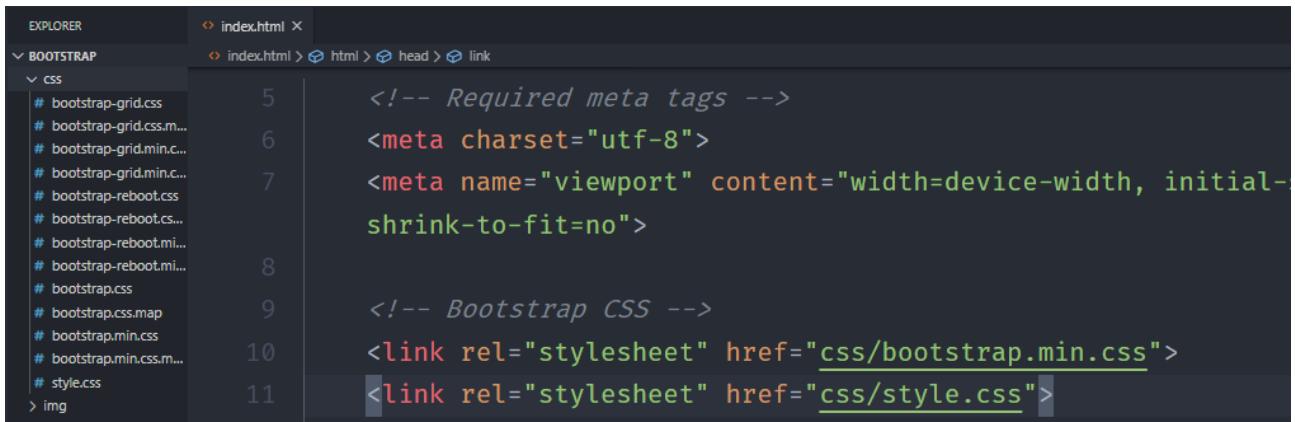
EXPLORER index.html

```
<div class="carousel-inner">
  <div class="carousel-item active">
    
    <div class="carousel-caption d-none d-md-block">...
  </div>
  <div class="carousel-item">
    
    <div class="carousel-caption d-none d-md-block">...
  </div>
  <div class="carousel-item">
    
    <div class="carousel-caption d-none d-md-block">...
  </div>
</div>
```

Follow link (ctrl + click)



4. Gambarnya terlalu tinggi, kita memperbaikinya
5. Buat file css pada folder css dan panggil filenya

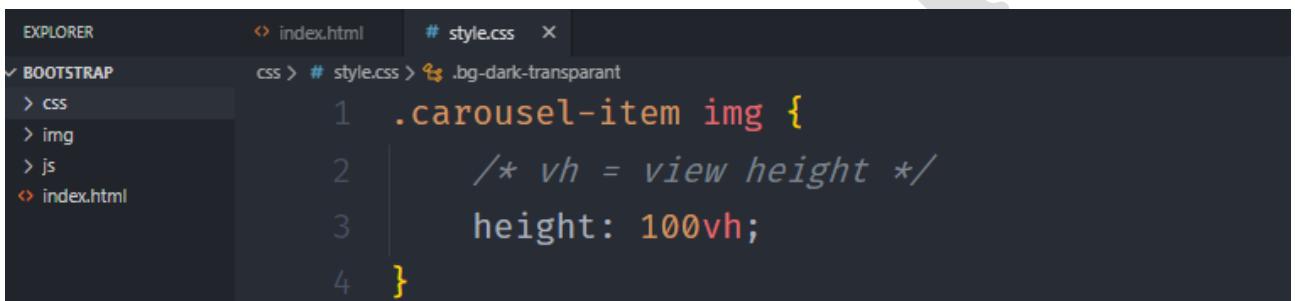


```

EXPLORER          index.html
BOOTSTRAP
  css
    # bootstrap-grid.css      5    <!-- Required meta tags -->
    # bootstrap-grid.css.m...  6    <meta charset="utf-8">
    # bootstrap-grid.min.c...  7    <meta name="viewport" content="width=device-width, initial-
    # bootstrap-grid.min.c...  8    shrink-to-fit=no">
    # bootstrap-reboot.cs...  9    <!-- Bootstrap CSS -->
    # bootstrap-reboot.mi... 10   <link rel="stylesheet" href="css/bootstrap.min.css">
    # bootstrap.css           11   <link rel="stylesheet" href="css/style.css">
  img

```

6. Style.css



```

EXPLORER          index.html # style.css
BOOTSTRAP
  css
  img
  js
  index.html
# style.css
  .bg-dark-transparent
  .carousel-item img {
    /* vh = view height */
    height: 100vh;
}

```

7. Untuk teksnya karna berwarna putih, tulisannya akan susah dibaca jika gambarnya berwarna putih, oleh karena itu kita tambahkan backdournd pada tulisannya



```

EXPLORER          index.html # style.css
BOOTSTRAP
  css
  img
  js
  index.html
# style.css
  .bg-dark-transparent
  .carousel-caption d-none d-md-block
    <div class="carousel-caption d-none d-md-block">
      <div class="bg-dark p-2">
        <h5>First slide label</h5>
        <p>Nulla vitae elit libero, a pharetra augue mollis interdum.</p>
      </div>
    </div>

```



8. Lebih bagus jika backgroundnya trasnparan
9. Buat css baru pada style.css

EXPLORER index.html # style.css

BOOTSTRAP > css > # style.css > .bg-dark-transparent

```
6 .bg-dark-transparent {  
7     background: rgba(0, 0, 0, .7);  
8 }
```

10. Panggil classnya pada ketiga tulisan di carousel

EXPLORER index.html # style.css

BOOTSTRAP > css > index.html > body > div.carousel-item.active

```
52 <div class="carousel-caption d-none d-md-block">  
53     <div class="bg-dark-transparent p-2">  
54         <h5>First slide label</h5>  
55         <p>Nulla vitae elit libero, a pharetra augue mollis  
56             interdum.</p>  
      </div>
```

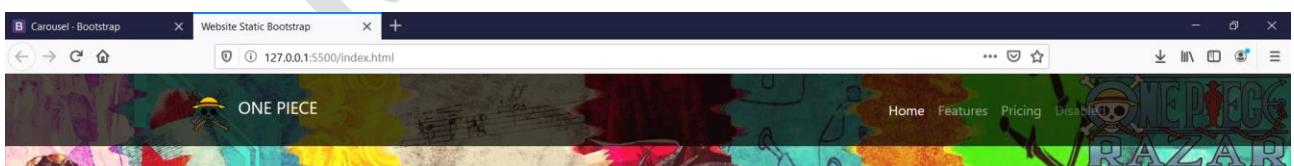


11. Kita perbaiki sedikit navbar, membuatnya menjadi transparan supaya sama dengan teks

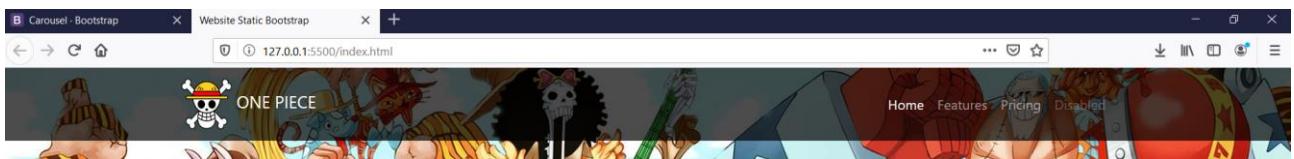
EXPLORER index.html # style.css

BOOTSTRAP > css > index.html > body

```
18 <!-- navbar -->  
19 <nav class="navbar navbar-expand-lg navbar-dark bg-dark-transparent  
fixed-top">...  
39 </nav>
```



12. Disini saya mengganti gambar saya pada logo



13. Jika diperkecil browsernya maka tampilan gambarnya tidak proposisional



14. Buat css manual jika ukuran layarnya kurang dari 768px

Code in style.css:

```
css > # style.css > .bg-dark-transparent
      6 @media (max-width: 768px) {
      7     .carousel-item img {
      8         height: 60vh;
      9     }
     10 }
```

SAMBUTAN → kita akan menerapkan layout dari bootstrap

1. Ingat bootsrap membagi layer menjadi 12 column

Code in bootstrap.css:

```
index.html > # bootstrap.css
index.html > html > body > div.container.py-5 > div.row > div.col-md-8
      89     <!-- sambutan -->
      90     <div class="container py-5">
      91         <!-- row ==> membuat baris -->
      92         <div class="row">
      93             <!--
      94                 col-md ==> jika ukuran layar kurang dari 768 pixel columnnya
                  akan memiliki lebar 100%
      95             -->
      96             <!-- membuat colom menjadi 4 -->
      97             <div class="col-md-4">
      98
      99             </div>
     100            <!-- membuat colom menjadi 8 -->
     101            <div class="col-md-8">
     102
     103                </div>
     104            </div>
     105        </div>
     106        <!-- end sambutan -->
```

2. Profil

A screenshot of a code editor showing the creation of a profile image section. The code is being written in a file named index.html. It includes Bootstrap CSS imports and a snippet for creating a four-column layout with an image:

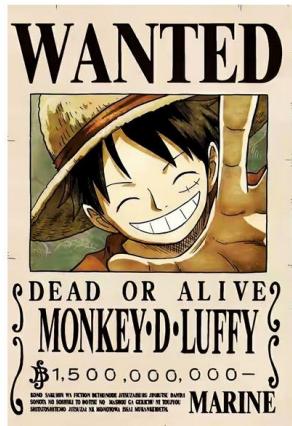
```
95      -->
96      <!-- membuat colom menjadi 4 -->
97      <div class="col-md-4 mb-5">
98          
99      </div>
```

3. Teks

A screenshot of a code editor showing the creation of a text section. The code is being written in a file named index.html. It includes Bootstrap CSS imports and a snippet for creating an eight-column layout with a centered h4 text:

```
100     <!-- membuat colom menjadi 8 -->
101     <div class="col-md-8 m-auto">
102         <h4 class="text-justify">...
103     </h4>
104     </div>
```

4. Tampilan



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WANTED
DEAD OR ALIVE
MONKEY·D·LUFFY
\$1,500,000,000-B
REWARD MARINE

Lore ipsum dolor sit amet consectetur adipisicing elit. Perspiciatis velit corporis, consequuntur aperiam autem nesciunt? Expedita aut beatae mollitia. Nam vel, animi aspernatur itaque obcaecati necessitatibus distinctio dolorum ipsa doloribus, similiqe beatae pariatur aliquam numquam illum repellat sed ullam eligendi vero magni, quam placeat corporis natus sint? Vitae voluptatibus soluta amet ad nesciunt saepe, reprehenderit rem molestiae quas! Quas, et. Excepturi sequi maiores eaque laudantium repellendus, dicta aut non sunt veniam eos est nulla doloremque aspernatur, eum tenetur aperiam tempore repellat voluptatum harum debitis reiciendis beatae quod at. Doloribus quia nihil doloremque architecto magni! Rem dicta unde delectus, asperiores id expedita saepe adipisci error. Commodi magnam impedit pariatur, recusandae iure debitis eos sint nostrum atque, repellat similiqe magni quam officiis nobis iusto!



BERITA

1. Buat layout

A screenshot of a code editor showing the creation of a news layout section. The code is being written in a file named index.html. It includes Bootstrap CSS imports and a snippet for creating a news section with a title and a row of columns:

```
119      <hr>
120      <!-- berita -->
121      <div class="container py-5">
122          <h1 class="text-center">BERITA</h1>
123          <div class="row">
124              <div class="col-md-4 mb-3">
125                  ...
126              </div>
127          </div>
128      </div>
129      <!-- end berita -->
```

2. Untuk membuat berita kita bisa menggunakan card

The screenshot shows a browser window displaying the Bootstrap 4.4 documentation at <https://getbootstrap.com/docs/4.4/components/card/>. The page title is "Cards - Bootstrap". The main content area shows a "Card" component with a dark gray header section labeled "Image cap", a white body section with "Card title" and some sample text, and a blue button labeled "Go somewhere". To the left is a sidebar with navigation links for "Getting started", "Layout", "Content", and "Components" (Alerts, Badge, Breadcrumb, Buttons, Button group, Card, Carousel, Collapse, Dropdowns, Forms, Input group, Jumbotron, List group, Media object). To the right is a sidebar with links to various Bootstrap components and utilities.

3. Delete style width, supaya lebarnya mengikuti lebar column

The screenshot shows a code editor interface with an "EXPLORER" sidebar on the left containing files like "index.html" and "# style.css", and a "BOOTSTRAP" folder with subfolders "css", "img", "js", and "index.html". The main editor area displays the following HTML code:

```
<!-- berita -->
<div class="container py-5">
  <h1 class="text-center">BERITA</h1>
  <div class="row">
    <div class="col-md-4 mb-3">
      <div class="card">
        
        <div class="card-body">
          <h5 class="card-title">Card title</h5>
          <p class="card-text">Some quick example text to build
            on the card title and make up the bulk of
            the card's content.</p>
          <a href="#" class="btn btn-primary">Go somewhere</a>
        </div>
      </div>
    </div>
  </div>
<!!-- end berita -->
```

4. Jika hanya 1 column yang dibuat dan lebarnya bukan 12 maka content akan berada di kiri

BERITA



Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

5. Supaya content berada di tengah tambahkan class justify-content-center

The screenshot shows a code editor with the following structure:

```
EXPLORER          index.html # style.css
BOOTSTRAP
> css
> img
> js
index.html

<!-- berita -->
<div class="container py-5">
  <h1 class="text-center mb-5">BERITA</h1>
  <div class="row justify-content-center">...
    </div>
  </div>
<!-- end berita -->
```

The code editor highlights the `justify-content-center` class in green. The file structure on the left shows files named `index.html` and `style.css`.

BERITA



Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

6. Buat 3 buah kotak

BERITA



Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

FORMS

1. Layouts

A screenshot of a code editor showing a portion of index.html. The code is as follows:

```
EXPLORER          index.html x

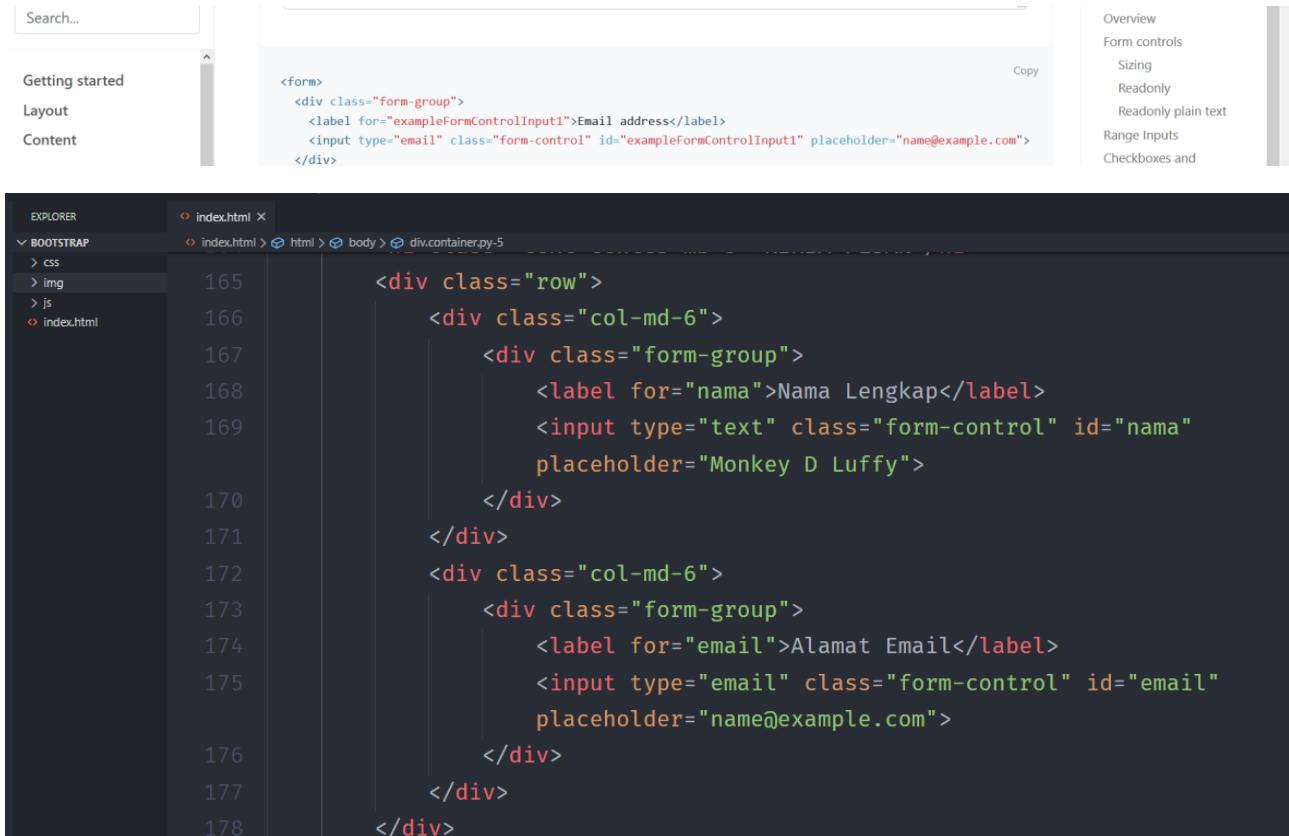
<div class="container py-5">
  <h1 class="text-center mb-5">KIRIM PESAN</h1>
  <div class="row">
    <div class="col-md-6">
      <hr>
      <!-- form -->
      <div class="form-group">
        <label for="exampleFormControlInput1">Email address</label>
        <input type="email" id="exampleFormControlInput1" class="form-control" placeholder="Email address" />
      </div>
    </div>
  </div>
</div>
<!-- end form -->

```

2. Pada menu search masukan keyword forms

A screenshot of the Bootstrap documentation website at https://getbootstrap.com/docs/4.4/components/forms/. The page title is "Forms - Bootstrap". The left sidebar has a "Search..." input field and links to "Getting started", "Layout", "Content", and "Components". The main content area is titled "Form controls" and contains text about styling input elements with the .form-control class. It includes a sample input field with the placeholder "Email address". The right sidebar has links to "Overview", "Form controls", "Sizing", "Readonly", "Readonly plain text", "Range Inputs", "Checkboxes and radios", and "Default (dark mode)".

3. Copy ke text editor ➔ input

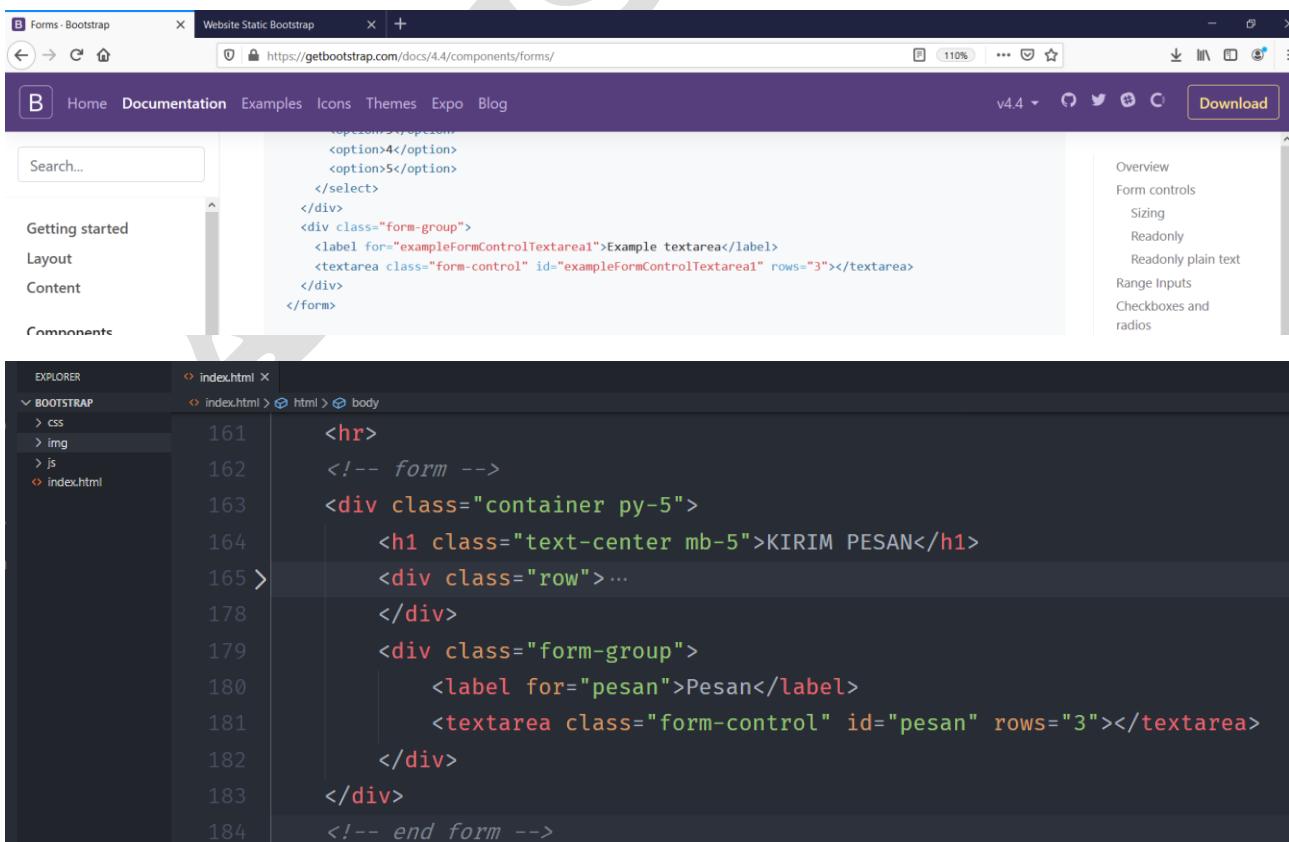


The screenshot shows a code editor interface with a sidebar on the left containing 'Getting started', 'Layout', 'Content', and 'OVERVIEW' sections. The main area displays the following HTML code:

```
<form>
  <div class="form-group">
    <label for="exampleFormControlInput1">Email address</label>
    <input type="email" class="form-control" id="exampleFormControlInput1" placeholder="name@example.com">
  </div>
```

A 'Copy' button is visible at the top right of the code block.

4. Copy ke text editor ➔ text area



The screenshot shows a browser window displaying the Bootstrap documentation for forms. The URL is <https://getbootstrap.com/docs/4.4/components/forms/>. The page content includes a search bar and a sidebar with 'Getting started', 'Layout', 'Content', and 'Components' sections. The main content area shows the following HTML code:

```
<option>1</option>
<option>2</option>
<option>3</option>
<option>4</option>
<option>5</option>
</select>
</div>
<div class="form-group">
  <label for="exampleFormControlTextareal">Example textarea</label>
  <textarea class="form-control" id="exampleFormControlTextareal" rows="3"></textarea>
</div>
</form>
```

The right side of the screen shows a sidebar with 'OVERVIEW' and links to 'Form controls', 'Sizing', 'Readonly', 'Readonly plain text', 'Range Inputs', and 'Checkboxes and radios'.

5. Tambahkan button

The screenshot shows a code editor interface with the file 'index.html' open. The code is being edited in a 'body' section:

```
</div>
<button type="submit" class="btn btn-primary">Kirim</button>
</div>
<!-- end form -->
```

The 'Kirim' button is highlighted in red, indicating it is the current selection.

KIRIM PESAN

Nama Lengkap

Pesan

Alamat Email

Kirim

FOOTER

The screenshot shows a code editor interface with the file 'index.html' open. The code is being edited in a 'body' section:

```
<!-- footer -->
<footer class="bg-dark p-3">
    <div class="text-center text-light">
        <h6>Copyright © Tamus Tahir 2020</h6>
    </div>
</footer>
<!-- end footer -->
```

The footer section is highlighted in red, indicating it is the current selection.

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