Web Technologies Bootstrap

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- It is a framework for web page developers that has been developed by twitter employees since 2010.
- ➤ Using Bootstrap;
 - It can be ensured that web pages appear responsive on different devices.
 - It contains ready-made style templates for many web elements.
 - Easy development of the design is provided
- It consists of css and js files.

It is possible to work with Bootstrap online or by downloading the necessary files.

To work online with Bootstrap CSS:

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"</pre>
```

To work with Bootstrap JavaScript online:

```
<script
```

crossorigin="anonymous">

src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-

ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+llRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script>

Lines must be added to the head of the relevant web page.

- In order to run the files that we will download to our own computer with Bootstrap, we first need to download the necessary files from the site.
- The latest version valid as of now is 5.1.3.
- >We can download the files of this version from getbootstrap.com.
- After the page is opened, the necessary files are downloaded from the window opened by clicking the download button in the window that appears.

After opening the files to the folder where our pages are, we add the files we will use to the head section of our web page.

To work with CSS:

```
<link rel="stylesheet" href="css/bootstrap.css">
```

To work with the compressed version of the file by removing the spaces in CSS:

```
<link rel="stylesheet" href="css/bootstrap.min.css">
```

To work with JavaScript:

```
<script type="text/javascript" src="js/bootstrap.js"></script>
```

To work with the compressed version of the file by removing the spaces in the JavaScript:

```
<script type="text/javascript« src="js/bootstrap.min.js"></script>
```

Bootstrap will be run on HTML5 pages. For this, to the top of the page

```
<!DOCTYPE html>
```

the document becomes an HTML5 document by adding the line.

To set the character set, click Title line is added.

```
<meta chatset="UTF-8">
```

For the settings related to displaying the page on mobile devices and for users to enlarge and shrink the page on these devices, click the header

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

Then the line with the Bootstrap .css and .js files is added.

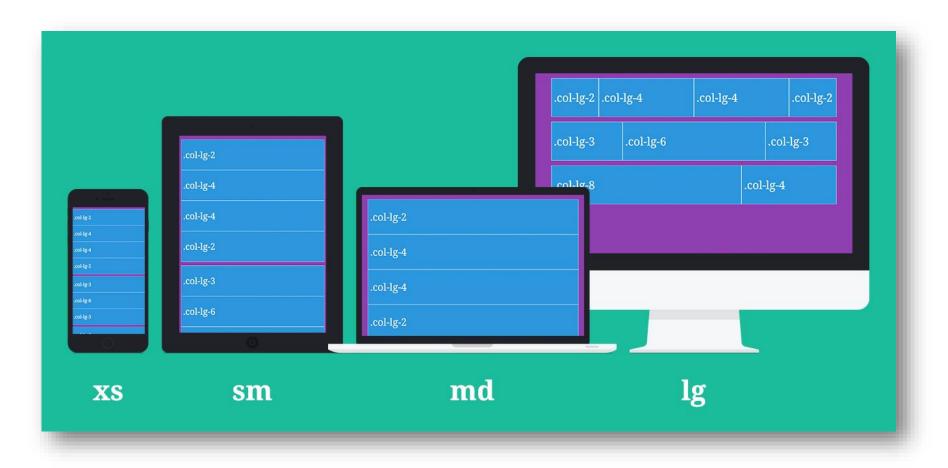
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>ÖRNEK</title>
<link rel="stylesheet" href="css/bootstrap.min.css">
</head>
<body>
  <div class="container-fluid">
     <h1>Sayfamız</h1>
                                          Sayfamız
     ilk Örneğimiz...
  </div>
                                          İlk Örneğimiz...
</body>
```

In Bootstrap, the grid system is used to determine how the elements on the web page will be placed.

The placement of the elements is achieved by dividing the web page horizontally into 12 equal parts, namely columns.

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							spa	ın 6		
span 12											

- •In Bootstrap, there are different subclasses for different devices in addition to the grid system in order to determine how the elements on the web page will be placed.
- Different subclasses are used for 4 different screen resolutions.
 - xs: for mobile phones,
 - sm: for tablets,
 - md: for laptops,
 - lg: for desktop computers.



There are 5 different grid structures.

- col → for extra small devices (display size< 576px)
- col-sm → for small devices (display size ≥ 576px)
- col-md → for medium devices(display size ≥ 768px)
- col-lg → for large devices (display size ≥ 992px)
- col-xl → for xlarge devices (display size ≥ 1200px)

In order to use the grid structure, a row definition is made using the row class that the grid will be in.

```
<div class="row"> </div>
```

Then div is defined for each column.

col-resolution type-number of columns to be combined in div.

```
<div class="col-sm-4"> 4-column for small devices </div>
```

ÖRNEK:

Three equal columns for tablet

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>ÖRNEKLER</title>
<link rel="stylesheet" href="css/bootstrap.min.css">
</head>
<body>
  <div class="container">
    <div class="row">
      <div class="col-sm-4" style="background-color:yellowgreen">
        4'lü sütun
      </div>
      <div class="col-sm-4" style="background-color: greenyellow">
        4'lü sütun
      </div>
      <div class="col-sm-4" style="background-color:yellowgreen">
        4'lü sütun
      </div>
  </div>
</body>
```

If there are more than 12 columns in the row, the columns after the 12th column are shown in the lower row. If the placement of the columns does not fit in one line, the display continues from the bottom line.

For example, if the screen is minimized in the previous application or if it is shown on the screen with a smaller resolution (such as a mobile phone), it is displayed one after the other.

4 lü Sütun

4 lü Sütun

4 lü Sütun

```
<div class="container">
    <div class="row">
      <div class="col-sm-4" style="background-color: yellowgreen">4'lü 3 sütun</div>
      <div class="col-sm-4" style="background-color: greenyellow">4'lü 3 sütun</div>
      <div class="col-sm-4" style="background-color: yellowgreen">4'lü 3 sütun</div>
    </div>
    <div class="row">
      <div class="col-sm-12" style="background-color: lightgreen">12'li tek
sütun</div>
   </div>
    <div class="row">
      <div class="col-sm-3" style="background-color: yellowgreen">3'lü 4 sütun</div>
      <div class="col-sm-3" style="background-color: greenyellow">3'lü 4 sütun</div>
      <div class="col-sm-3" style="background-color: yellowgreen">3'lü 4 sütun</div>
      <div class="col-sm-3" style="background-color: greenyellow">3'lü 4 sütun</div>
    </div>
</div>
4 lü 3 Sütun
                               4 lü 3 Sütun
                                                              4 lü 3 Sütun
12 li tek Sütun
                                              3 lü 4 Sütun
                                                                     3 lü 4 Sütun
3 lü 4 Sütun
                       3 lü 4 Sütun
```

If desired, more than one resolution type class can be used together by giving values with spaces between them.

It chooses which css to use by looking at the screen resolution.

```
<div class="container">
    <div class="row">
      <div class="col-md-6 col-lg-3" style="background-color: yellowgreen">
        Dizüstü 2, masaüstü 4 sütun
      </div>
      <div class="col-md-6 col-lg-3" style="background-color: greenyellow">
        Dizüstü 2, masaüstü 4 sütun
      </div>
      <div class="col-md-6 col-lg-3" style="background-color:yellowgreen">
        Dizüstü 2, masaüstü 4 sütun
      </div>
      <div class="col-md-6 col-lg-3" style="background-color: greenyellow">
        Dizüstü 2, masaüstü 4 sütun
      </div>
    </div>
</div>
```

Diz üstü 2 sütun Masaüstü 4 sütun

If desired, more than one grid structure can be used together.

It is necessary to define a line every time during use.

Bootstrap Text Color

There are defined color classes that can be given to texts with Bootstrap.

- text-muted
- text-primary
- text-success
- text-info
- text-warning
- text-danger
- text-secondary
- text-white
- text-dark
- text-body
- text-light

Bootstrap Text Color

• •

```
sessiz
önemli
başarı
bilgi
uyarı
tehlike
ikinci metin
dark grey
dark grey
gövde rengi(genellikle siyah)
açık gri(beyaz arkaplanda)
beyaz(siyah arkaplanda)
```

önemli
başarı
bilgi
uyarı
tehlike
ikinci metin
dark grey
gövde rengi(genellikle siyah)
açık gri(beyaz arkaplanda)
beyaz(siyah arkaplanda)

Bootstrap Background Color

There are defined color classes that can be given for the background with Bootstrap.

- bg-primary
- bg-success
- bg-info
- bg-warning
- bg-danger
- bg-secondary
- bg-dark
- bg-light

You can use the .text- * class to specify text colors along with background colors.

Bootstrap Text and Background Color

. .

```
ÖNEMLİ
BAŞARILI
BİLGİ
UYARI
TEHLİKE
İKİNCİ ARKAPLAN RENGİ
KOYU GRİ ARKAPLAN RENGİ
AÇIK GRİ ARKAPLAN RENGİ
AKAPLAN RENGİ
AÇIK GRİ ARKAPLAN RENGİ
```

ÖNEMLİ

BAŞARILI

BİLGİ

UYARI

TEHLİKE

İKİNCİ ARKAPLAN RENGİ

KOYU GRİ ARKAPLAN RENGİ

AÇIK GRİ ARKAPLAN RENGİ

When the .table class is used in the table tag, a table with an inner row border is created.

Ad	Soyad	Ortalama
Ali	Gel	75
Veli	Git	90

- To have table borders .table-bordered,
- to create zebra stripes on the table .table-striped,
- to change color on the line.table-hover,
- •for resolution sensitive table .table-responsive classes can be added.
- The classes that can be used to give the background color to table rows and (or) columns:
 - table-primary
 - table-success
 - table-info
 - table-warning
 - table-danger
 - table-active
 - table-secondary
 - table-dark
 - table-light

ÖRNEK:

```
        AdSoyadOrtalama
```

Ad	Soyad	Ortalama
Ali	YILMAZ	75
Veli	ÖZTÜRK	90

ÖRNEK:

Ad	Soyad	Ortalama
Ali	YILMAZ	75
Veli	ÖZTÜRK	90

Bootstrap Images

.Rounded to show the picture with rounded edges, .rounded-circle to show it inside the circle, .img-thumbnail to show it with a clawed border, and .img-fluid classes to create resolution sensitive images.

Bootstrap Images...

ÖRNEK:







Bootstrap Alert Class

Bootstrap 4 allows predefined alert messages.

The .alert class is used for simple warning messages.

The following classes can be used to define the background colors differently:

- alert-primary
- alert-success
- alert-info
- alert-warning
- alert-danger
- alert-secondary
- alert-dark
- alert-light

NOTE: Warning messages can be created using Bootstrap Javascript. This part will be explained later....

Bootstrap Alert Class

ÖRNEK:

```
<div class="alert alert-success"><strong>BAŞARILI!</strong></div>
<div class="alert alert-info"><strong>BİLGİ!</strong></div>
<div class="alert alert-warning"><strong>UYARI!</strong></div>
<div class="alert alert-danger"><strong>TEHLİKE!</strong></div>
<div class="alert alert-primary"><strong>BİRİNCİL!</strong></div>
<div class="alert alert-secondary"><strong>İKİNCİL!</strong></div>
<div class="alert alert-dark"><strong>KOYU GRİ!</strong></div>
<div class="alert alert-light"><strong>AÇIK GRİ!</strong></div>
```

BAŞARILI!			
BİLGİ!			
UYARI!			
TEHLİKE!			
BİRİNCİL!			
ikincil!			
KOYU GRİ!			
AÇIK GRİ!			

Bootstrap Buttons

For basic buttons .btn class is used.

Button classes can be used for <a>, <button> or <input> elements.

```
<a href="#" class="btn btn-info" role="button">Bağlantı Butonu</a>
<button type="button" class="btn btn-info">Buton</button>
<input type="button" class="btn btn-info" value="Giris Butonu">
<input type="submit" class="btn btn-info" value="Submit Butonu">
```

Link Button Button Input Button Submit Button

Bootstrap Buttons...

The classes given below on the left can be used to define different buttons in the background colors on the web pages, and the classes given below on the right can be used to define different buttons with border colors. :

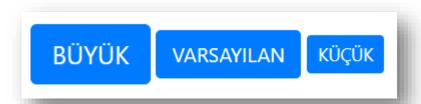
- btn-primary
- btn-secondary
- btn-success
- btn-info
- btn-warning
- btn-danger
- btn-dark
- btn-light
- btn-link

- btn-outline-primary
- btn-outline-secondary
- btn-outline-success
- btn-outline-info
- btn-outline-warning
- btn-outline-danger
- btn-outline-dark
- btn-outline-light

Bootstrap Buttons...

The .btn-lg classes are used to create buttons larger than their default size, and .btn-sm classes are used to create smaller buttons.

```
<button type="button" class="btn btn-primary btn-lg">BÜYÜK</button>
<button type="button" class="btn btn-primary btn-md">VARSAYILAN</button>
<button type="button" class="btn btn-primary btn-sm">KÜÇÜK</button>
```



Bootstrap Buttons...

Buttons can be enabled/disabled.

The .active class is used for a button to be active, that is, clickable, and the disabled property is used to make it unclickable.

The .disabled class is used to make this tag unclickable because the anchor tag does not support the disabled property.

```
<button type="button" class="btn btn-primary">BUTON</button>
<button type="button" class="btn btn-primary active">AKTİF BUTON</button>
<button type="button" class="btn btn-primary" disabled>ENGELLENMİŞ BUTON</button>
<a href="#" class="btn btn-primary disabled">ENGELLENMİŞ BAĞLANTI</a>
```

BUTON

AKTIF BUTON

ENGELLENMİŞ BUTON

ENGELLENMİŞ BAĞLANTI

Bootstrap Buttons

To group the buttons on the web page on a single line, not separately, the buttons are defined in the .btn-group class.

To accomplish this, buttons are defined within a <div> tag defined using a .btn-group class.

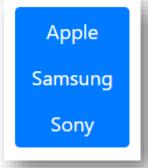
```
<div class="btn-group">
  <button type="button" class="btn btn-primary">Apple</button>
  <button type="button" class="btn btn-primary">Samsung</button>
  <button type="button" class="btn btn-primary">Sony</button>
  </div>
```

Apple Samsung Sony

Bootstrap Buttons

The .btn-group-vertical class is used to group the buttons vertically.

```
<div class="btn-group-vertical">
  <button type="button" class="btn btn-primary">Apple</button>
  <button type="button" class="btn btn-primary">Samsung</button>
  <button type="button" class="btn btn-primary">Sony</button>
  </div>
```



Bootstrap Badge Class

Badge is used to provide additional information for any content.

The .badge class is used in the tag content to create rectangular marks.

The content classes that can be used in the .badge class are listed

below.

- badge-primary
- badge-secondary
- badge-success
- badge-info
- badge-warning
- badge-danger
- badge-dark
- badge-light
- badge-link

Signs with more rounded borders are created using the .badge-pill class.

Bootstrap Badge Class

EXAMPLE:

```
<span class="badge">İŞARET</span>
<span class="badge badge-warning">UYARI İŞARETİ</span>
<span class="badge badge-pill badge-danger">YUVARLATILMIŞ UYARI İŞARETİ</span>
```

İŞARET UYARI İŞARETİ YUVARLATILMIŞ UYARI İŞARETİ

```
<button type="button" class="btn btn-primary">
   MESAJLAR <span class="badge badge-light">4</span>
</button>
<button type="button" class="btn btn-danger">
   UYARILAR <span class="badge badge-light">7</span>
</button>
```

MESAJLAR 4

UYARILAR 7

Bootstrap Spinner Class

To create a spinner/loader, the .spinner-border class is used.

The .spinner-grow class is used to create a grow effect instead of a spin effect.

EXAMPLE:

```
<div class="spinner-border text-primary"></div>
```

```
<button class="btn btn-primary">
  <span class="spinner-border spinner-border-sm"></span>
  YÜKLENİYOR..
</button>
```





Bootstrap Pagination

In order to paginate structures consisting of more than one page, the .pagination class is used in the
 list element.

The .page-item class is used for each list element, and the .page-link class is used for each link element within the list element.

The class of the current page is made .active.



Bootstrap Pagination...

The .breadcrumb class is used in the list to use "/" instead of boxes in order to paginate structures consisting of more than one page.

The .breadcrumb-item class is used for each list element.

The class of the current page is made .active.

Bootstrap Lists

To work with list boxes, the .list-group class is used in the the .list-group-item class is used in list elements.

The .active class is used for the current list element.

To change the color of the list element when hovered with the mouse. The list-group-item-action class is used.

The following classes are used to color the background of list elements:

- list-group-item -primary
- list-group-item-success
- list-group-item -secondary
- list-group-item -info
- list-group-item -warning
- list-group-item -danger
- list-group-item -dark
- list-group-item -light

Bootstrap Lists...

EXAMPLE:

LİSTE ELEMANI - 1

LİSTE ELEMANI - 2

Bootstrap Lists...

EXAMPLE:...

LİSTE ELEMANI - 1
LİSTE ELEMANI - 2

Kaynaklar:

http://www.w3schools.com/

http://ozgrozer.com/2015/06/08/bootstrap-izgara-sistemi