

Guided - Bootstrap

The following exercise contains the following subjects:

- html
- bootstrap

In this guided you will learn how to include bootstrap in your html and how to use it.



What's Bootstrap?

"Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web."

Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only.

- Originally developed by Twitter, now an open sourced project on GitHub.
- Currently the most common Front End framework.
- Supported on multiple browsers and Operating systems.

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Bootstrap Grid System

- The Bootstrap 3 grid system lets you create an elastic stripes layout in your page.
- Let's start with a [demo](#).
- The Bootstrap 3 grid system has four tiers of classes: xs (phones), sm (tablets), md (desktops), and lg (larger desktops). You can use nearly any combination of these classes to create more dynamic and flexible layouts.
- Each tier of classes scales up, meaning if you plan on setting the same widths for xs and sm, you only need to specify xs.

Bootstrap Components

Bootstrap provides us with a large set of components that we can just use:

- Navigation bars
- Buttons
- Lists
- Progress Bars
- Alerts
- Icons (called Glyphicons)


The full list is in the [documentation](#).

[Bootstrap](#)
[Getting started](#)
[CSS](#)
[Components](#)
[JavaScript](#)
[Customize](#)

[Themes](#)
[Expo](#)
[Blog](#)

Components

Over a dozen reusable components built to provide iconography, dropdowns, input groups, navigation, alerts, and much more.



All the tools your team needs in one place. Slack: Where work happens.
ads via Carbon

Glyphicons

Available glyphs

Includes over 250 glyphs in font format from the Glyphicon Halflings set. [Glyphicons](#) Halflings are normally not available for free, but their creator has made them

[Glyphicons](#)
[Dropdowns](#)
[Button groups](#)
[Button dropdowns](#)
[Input groups](#)



Task - Adding the Bootstrap framework

1. Create a new folder in your dev folder and name it guided-bootstrap. This is where we will put all our work for this guided task.
2. Within this folder, create an html file (a file with a .html ending).
3. Bootstrap uses html elements and css properties that require the html5 doctype. It's also always useful to add the language attribute and the correct character set. So, copy the following html to the html file you created.

```
<!DOCTYPE html>
<html lang="en">
  <head>

    <meta charset="utf-8">

    <title>Hello, Bootstrap!</title>
  </head>
  <body>

  </body>

</html>
```

4. In order to add responsivity to mobile devices, add the following line as well inside the head tag:

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

Read about [device-width and initial-scale](#) so that you know what they mean.

5. Great, but we haven't actually added bootstrap yet!
There are two ways to do so: You can **download the bootstrap files** (css and javascript) and have the **src** of the script tag to point to the location of these files on your computer. (we keep these local files for offline usage). Or, you can **add a link to the cdn** (content delivery network) and then you don't have to download the actual bootstrap files. We will use the second method because using the cdn usually leads to faster load time.

In both cases, you need to add three files: **bootstrap css**, **bootstrap js** and **jquery**.

Let's start by placing the **bootstrap css** in the **<head>** tag .

Now, let's place the **<script>s (bootstrap js and jquery)** near the end of our page, right before the closing `</body>` tag. It's important that the jquery link is placed before the bootstrap js link because bootstrap uses jquery (you will learn more about this later when we learn javascript and jquery). Never edit these default files.

To use bootstrap 3.3.7, it will look like this:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

    <!-- Your page title-->
    <title>Hello, Bootstrap!</title>
  </head>
  <body>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Bootstrap JS -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
  </body>
</html>
```

6. Awesome! we added the bootstrap framework to our html file successfully!



Task - Using the bootstrap framework

1. Now after we added the bootstrap cdn successfully - let's start using bootstrap!

Let's create our first container.

Containers are the most basic layout element in Bootstrap and are required when using our default grid system. Choose from a responsive, fixed-width container (meaning its max-width changes at each breakpoint) or fluid-width (meaning it's 100% wide all the time).

Copy this code and paste it in your body tag.

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

2. **Bootstrap's grid system** uses a series of containers, rows, and columns to layout and align content. It's built with flexbox and is fully responsive. Let's add columns to our container.

Below is an example and an in-depth look at how the grid comes together:

One of three columns	One of three columns	One of three columns
----------------------	----------------------	----------------------

```
<div class="container">
  <div class="row">
    <div class="col-md-4">One of three columns</div>
    <div class="col-md-4">One of three columns</div>
    <div class="col-md-4">One of three columns</div>
  </div>
</div>
```

Copy this code and paste it in your body tag.

The above example creates three equal-width columns bootstrap's predefined grid classes. Those columns are centered in the page with the parent **.container**.

More information about the '**Grid layout system**' available in [here](#).



Task - Adding Bootstrap components

Bootstrap components list and examples available in [this link](#).

1. Let's add a Navbar component to our template.
Navigate to the '[Navbar](#)' section in the [bootstrap components page](#).

Copy the code of the example and paste it into your template above the **.container** we created in the previous task.

Take your time to explore the navbar elements.

- a. Let's start by removing unnecessary elements.

For example, remove the 'Search bar' element.
Find the 'Search bar' element in the HTML.

```

    </ul>
  </li>
</ul>
<form class="navbar-form navbar-left">
  <div class="form-group">
    <input type="text" class="form-control" placeholder="Search">
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
<ul class="nav navbar-nav navbar-right">
  <li><a href="#">Link</a></li>
  <li class="dropdown">

```

Actually, if we want to remove the 'Search bar' element, we need to delete this whole `<form>` tag including the 'Submit' button.

Remove the `<form>` tag and make sure the whole element has been removed by browsing to the .html file.

- b. Replace the 'Brand' text with a logo image.

Find the `<a>` tag with the `.navbar-brand` class.

Remove the 'Brand' text and add this `` tag inside instead (between the `<a>` tags):

```

```

- c. Now it's your turn:

Change the buttons name.

Remove the second dropdown.

2. Let's add Jumbotron to our template.

Navigate to the ['Jumbotron' section](#) in the [bootstrap components page](#).

Copy the code of the example and paste it into your template between the navbar component and the `.container` we created earlier.

Change the jumbotron title.



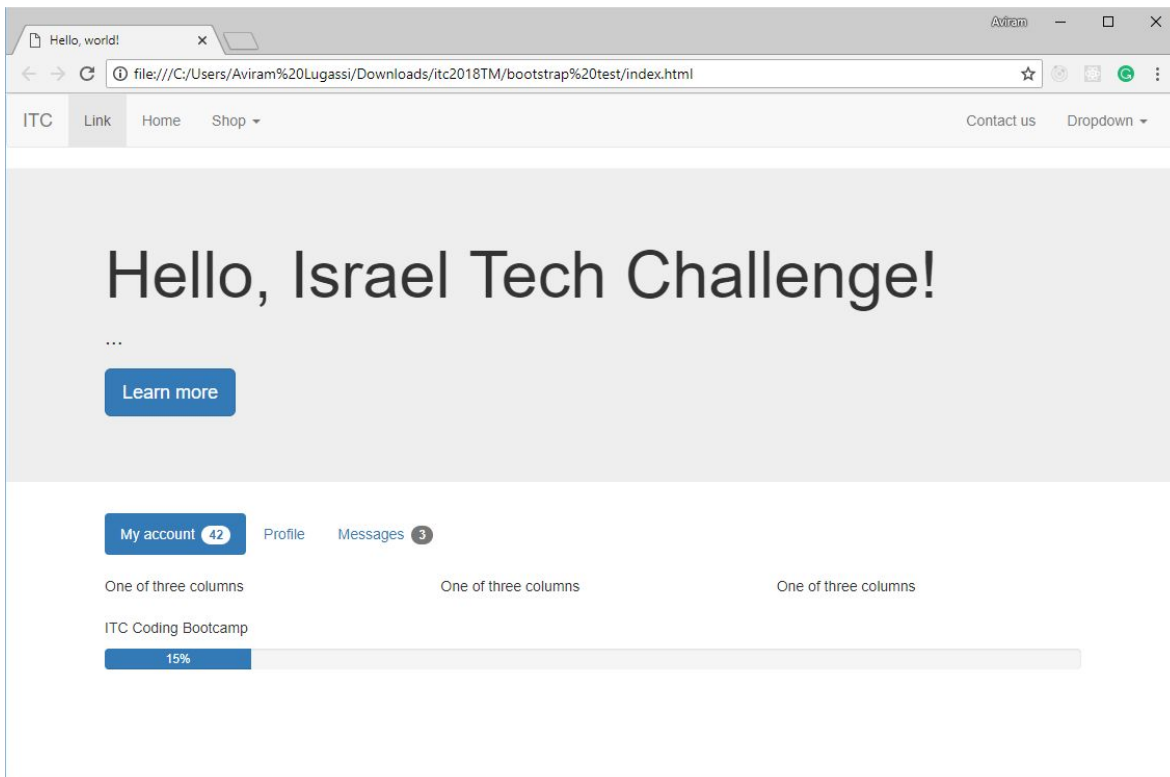
3. Add 2 components from the list for your choice.

Please submit your final template.

Mockup of our template

Components list:

- Navbar
- Jumbotron
- Badges
- *Our first container with 3 columns*
- *Progress bar with label*



Awesome!

Keep explore the components page. you'll use it a lot in the next tasks.

Video Tutorials - Bootstrap (watch before you go to bed :)

1. Bootstrap Grid - <https://www.youtube.com/watch?v=c5xVxSFoyQw>
2. Bootstrap tables - <https://www.youtube.com/watch?v=RKM8UAepr4g>
3. Bootstrap navbar toggle button(hamburger) - <https://www.youtube.com/watch?v=CPvZzJIUz20>