bootstrap
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is a responsive design framework
can build static web sites and dynamic web applications

bootstrap controls the front end design of your website
mobile first approach

single “responsive” grid system that organizes page content into a series of rows and columns
bootstrap contains html and css design templates as well as optional javascript extensions

was a project released in 2010 as open source

originally developed as an internal toolkit for Twitter

has become a popular front end web framework and is used by many different sites.
Front End Development - Has to do with the elements of a website that we see and interact with. Typically we employ HTML, CSS, and Javascript in Front End Development.

Back End Development - Has to do with the functionality of the website that is not visible to a person. The back end usually consist of a server, an application, and a database.

Languages most often employed in back end dev are PHP, Ruby, Python, C++, Perl. There are more…
Clients - devices such as personal computers/mobile devices make request. We do this via a software application such as a web browser. The request comes in the form of a url, keyword i.e. via google. The server locates it and serves it to the client.

Servers - Are machines that store the information that the client on the front end seeks. Servers serve us the resource we are searching for once it has located it.
starts with a baseline of shared styles and introduces more advanced layout rules when the screen size permits

**media queries** - are used to determine screen size and apply different styles accordingly
additional interactive components can extend the behavioral aspects of bootstrap web pages

sometimes these interactive components, we refer to as widgets

normally we would need to have an understanding of javascript to add interactivity to a website

bootstrap simplifies this by providing several common widgets including tabs, carousels, and tooltips
to include/use bootstrap we can download it from the bootstrap site or include it via content delivery network (CDN)

CDN is a system of distributed servers that deliver webpages and other Web content to a user based on the geographic locations of the user, the origin of the webpage and a content delivery server
To ensure proper rendering and touch zooming, we add the following `<meta>` tag inside the `<head>` element:

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

Where **The width=device-width** part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

And **The initial-scale=1** part sets the initial zoom level when the page is first loaded by the browser.