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UNIT 2
HTML and CSS

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SESSION 4
Preview Time

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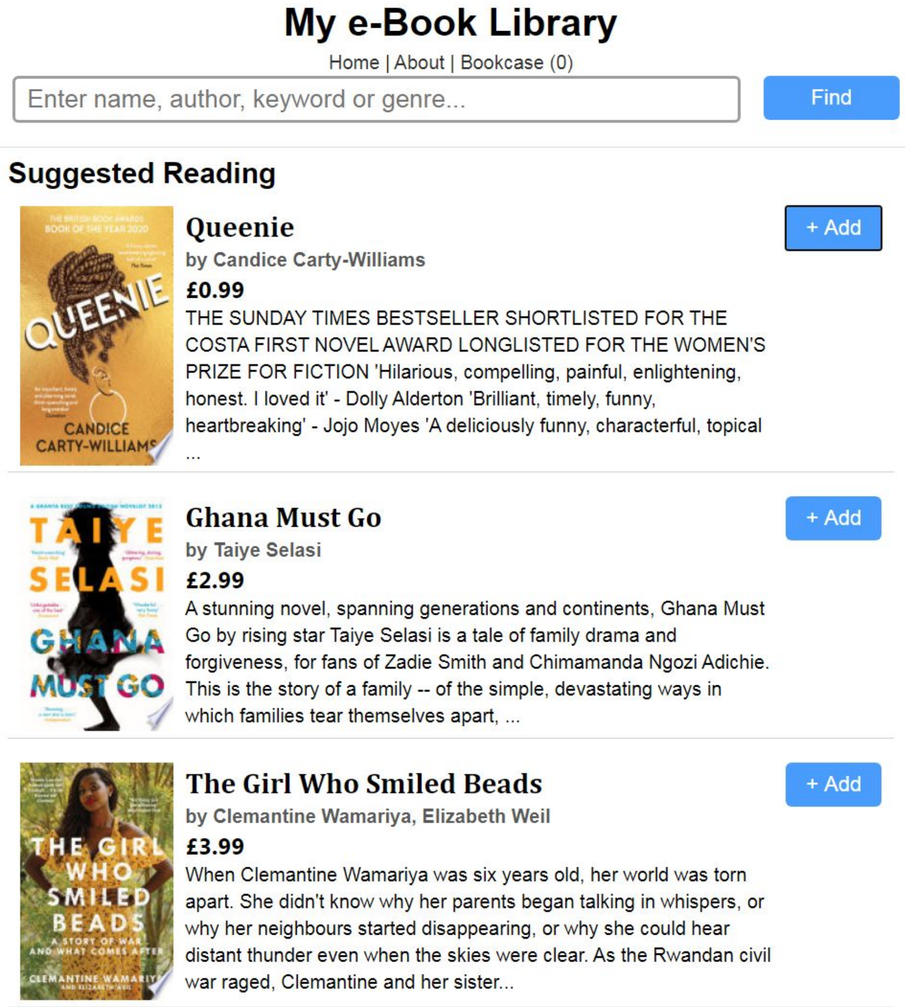
Learning objectives

1. Start building our shop site
2. Learn how to add Bootstrap
3. Push our work to GitHub



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Building our bookshop site

First let's check out another code (style) guide, curiously enough - from one of the creators of Bootstrap who now works at GitHub (remember the others ones we've talked about are linked there too):https://codeguide.co

We're going to keep these considerations in mind as we move onto our next project, building a bookshop site. This is going to bridge us over very helpfully into Unit 3. The next (and final *sob sob*) sessions of Unit 2 next week will also touch upon transferable concepts to give us a great foundation for JavaScript e.g. variables.

To start off with, let's take a look at the baseline code we'll be using to create a main element, headers, sections, articles, summaries, input forms, buttons... Don't forget to use the meta tag viewport code

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <link href="favicon.png" rel="icon">
  <link rel="stylesheet" href="style.css">
  <meta name="theme-color" content="#000">
  <meta name="description" content="eBook">
  ...
</head>

<body>
 ...
<---! Do you recall how to add a button?-->
<button class="addbtn">+ Add</button>
</body>
```

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```
<body>
 <main id="root">
  <section class="container">
   <header class="header">
    <h1>My e-Book Library</h1>
     <nav class="breadcrumb">
      <a href="/">Home</a> |
      <a href="/about">About</a> |
      <a class="bookLink" href="/bookcase">Bookcase (0)</a>
     </nav>
    </header>

    <header class="searchBar">
     <form>
      <input type="text" placeholder="Enter… " name="search" value="">
      <input type="submit" value="Find">
      <label>Time for your next good read</label>
     </form>
    </header>

 <section class="list">
  <div>
   <h2>Suggested Reading</h2>
   <div class="book"><img src="..." alt="Queenie">
   <article>
     <h2 title="Queenie">Queenie</h2>
      <p class="author">by Candice Carty-Williams</p>
      <p class="price">£0.99</p>
      <summary class="description">THE SUNDAY TIMES BESTSELLER ...</summary>
   </article>
```

```
.header h1,
.header .breadcrumb {
   text-align: center;
}

.book {
       border-bottom: 1px solid rgb(...);

.book .addbtn,
.searchBar input[type=submit] {
  padding: 8px 10px;
  border-radius: 5px;
  min-width: 80px;
  float: right;
  font-size: 1.1em;
}

.book .addbtn {
background-color: rgb(79, 149, 255);
}
```

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Checkpoint!

How are you feeling?

RED - I have no idea what you're talking about

YELLOW - I have some questions but feel like I understand some things

GREEN - I feel comfortable with everything you've said

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Break things up

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Example media queries

```
/* Extra small devices (phones, 600px and down) */
@media only screen and (max-width: 600px) {}

/* Small devices (portrait tablets and large phones, 600px and up) */
@media only screen and (min-width: 600px) {}

/* Medium devices (landscape tablets, 768px and up) */
@media only screen and (min-width: 768px) {}

/* Large devices (laptops/desktops, 992px and up) */
@media only screen and (min-width: 992px) {
                    .container {
                        width: 50%;
                        margin: 0 auto;
                               }
}

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

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Task 1:

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Start filling in all the remaining parts of the code, especially the CSS. Try out your own ideas first then let me know if you'd like to see some exemplars.

Make a list (mentally is fine) of all the different bits of HTML and CSS that you can see in your files in terms of what you've learnt - the winner is whoever get the highest tally in recognition of all that you've learnt!

If there's any part of the code you find confusing and or are unsure about, discuss it among yourselves and your volunteer/mentor if one is present. Feel free to use the ask for help feature on Zoom, or make a quick note of it and tell me once we all return to the main room.

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Reading Break

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Introduction to Bootstrap

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What is Bootstrap

Bootstrap is a free and open source* HTML, CSS, and JavaScript *framework* focused on responsive and mobile first web development which was created by 2 Twitter employees.

Its features make building a website faster and easier by using fixed or fluid grid structures with a default 12 columns and presets. It is comprised of an extensive library of styled *frames* and *widgets* that enable us to rapidly create aesthetically pleasing pages with minimal effort - ain't nobody got time (for that) right?

*aka FOSS

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Why use Bootstrap?

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It’s the most popular HTML, CSS, and JavaScript framework: 5th place on GitHub with 144k stars. Certainly must do a great job of avoiding finicky / fussy bits (!)

- Save time by using templates so you complete your projects with more speed
- Avoid the frustration that often results when having to style each element Dx
- Get nicely designed frame & widget templates that look good from the get go
- Responsive web design ready and mobile first, again good to go straight away
- Near unlimited variety of options which can be further customized with CSS
- Easy to use in terms of how straightforward it is to look for a desired aesthetic

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How does Bootstrap work?

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Bootstrap comes in components/options which usually consist of an HTML structure, CSS declarations, and where applicable, some JavaScript. Let's hop onto the Bootstrap website and take a look for ourselves >>

Button dropdown menus Built on button groups to provide contextual menus

Button dropdowns

Overview and examples

Use any button to trigger a dropdown menu by placing it within a `.btn-group` and providing the proper menu markup.

Example markup

Similar to a button group, our markup uses regular button markup, but with a handful of additions to refine the style and support Bootstrap's dropdown jQuery plugin.

```
<div class="btn-group">
  <a class="btn dropdown-toggle" data-toggle="dropdown" href="#">
    Action
    <span class="caret"></span>
  </a>
  <ul class="dropdown-menu">
    <!-- dropdown menu links -->
  </ul>
</div>
```

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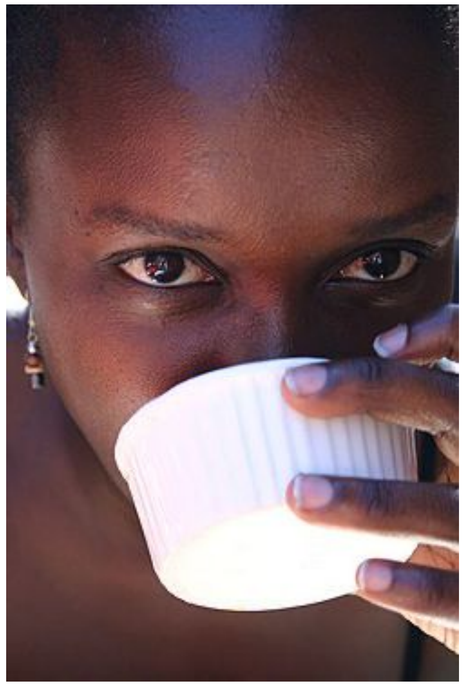

Breather

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Bootstrap 101

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By our bootstraps...

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Ordinarily we'd install Bootstrap using e.g. a package manager. For now, we'll use their templates and a CDN (content delivery network) which gives us a cached version. No better approach than getting stuck in to learn by doing:

1. Add the quick start Bootstrap setup code into your HTML
2. Look on the site for examples you might like to play around with
3. Copy over code for the relevant element(s) and paste it into your file(s)

Now have a go at filling in content and styling bits with further customizations from the library or incorporating it to your work - bring your special CSS touch!

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Bootstrap Break

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Task 2:

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Choose one of the following Bootstrap features to research more how to use:

- Layout
- Typography
- Navigation
- Forms
- Buttons

You can look things up individually, and then report back to one another. Try to explain to each other the first steps of testing out what you've just learnt.

If you prefer, you could of course work together in pairs or as one group of 3/4/5.

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Pre Breakout Room Break

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Task 3:

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Insert the rest of the bulk content for individual books to be sold in your shop.

Use this free time as an extra opportunity to catch up on anything you missed , whether that's session 4 today or previous ones especially portfolio wise.

To wrap up for this week, it's time to **push** what we've been doing to GitHub. Remember you can of course always check the Command Line and Git slides for a refresher on how to move around in your Terminal / Command Prompt.

Which git command do you need to use to check the **status** of the repository you initialised to track changes within a folder and its content? How will you **add** the files to the staging area? What do we do to make a **commit** ensuring it has a message? Did you already set up the **remote**? Will you merge anything?

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Homework

Refine your portfolio and make sure you've pushed to GitHub. Share the link with other people in your group and or anyone else. Ask them to test it and share their thoughts. You can think of this as the first steps to code review, plus you may want to check it beforehand in line with those best practice suggestions, DRY/WET principles, and *code) style guides plus standards.

Next, keep customising your bookshop site to make the design more distinctive. Aim to try out different ideas using combinators, media queries, specificity considerations, CSS Flexbox, and CSS Grids. If you decide to use Bootstrap, make sure to have a separate version without it. This is so that you start from a clearer slate when you start incorporating JavaScript in week 5.)

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Any questions?

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Woop woop you've already finished Week 3!
Sleep well <3

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