# Department of Computing

**CS-344: Web Engineering**

**Class:** BESE-11AB

# Lab 04: CSS

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**Date: 06.10.22**

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# Lab 04: CSS

### Introduction:

Students have learned advanced concepts of HTML and CSS which can be applied to design professional web pages. In this lab, student will practically design a web page using advanced HTML and CSS concepts.

### Lab Objectives:

The objective of this lab is to help students in designing layout of a web page using divisions and CSS. Students will apply different HTML tags and styling concepts they have learned in the lectures to design the layout of a web page.

### Tools:

Dreamweaver, notepad, browser.

### Helping Material:

Lecture slides.

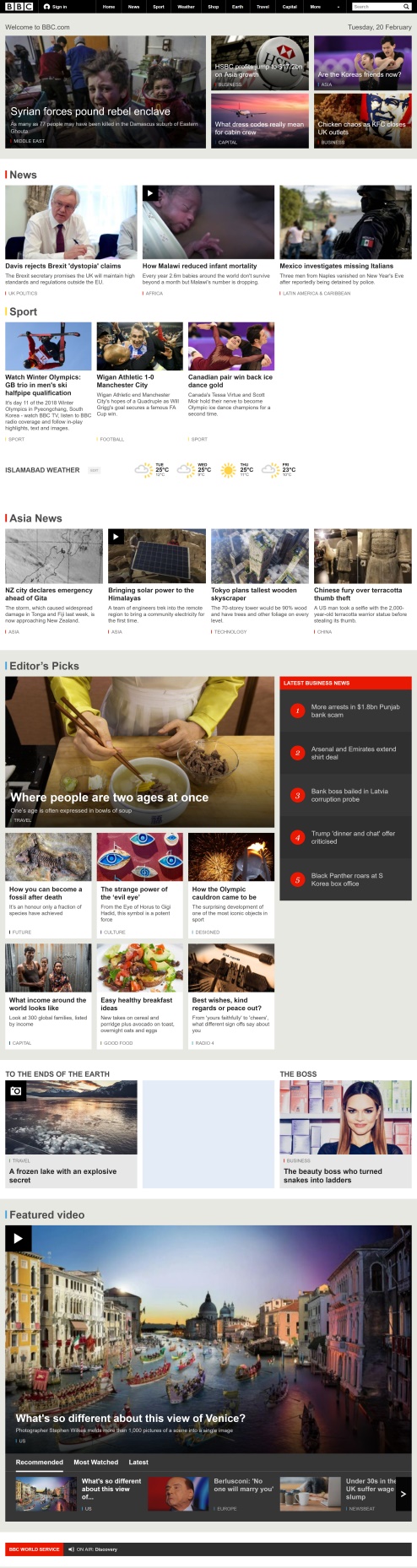
W3Schools: <https://www.w3schools.com/html/default.asp>

Plenty of DIV examples: <http://www.mobilefish.com/tutorials/css/css_quickguide_div_examples_containers.html>

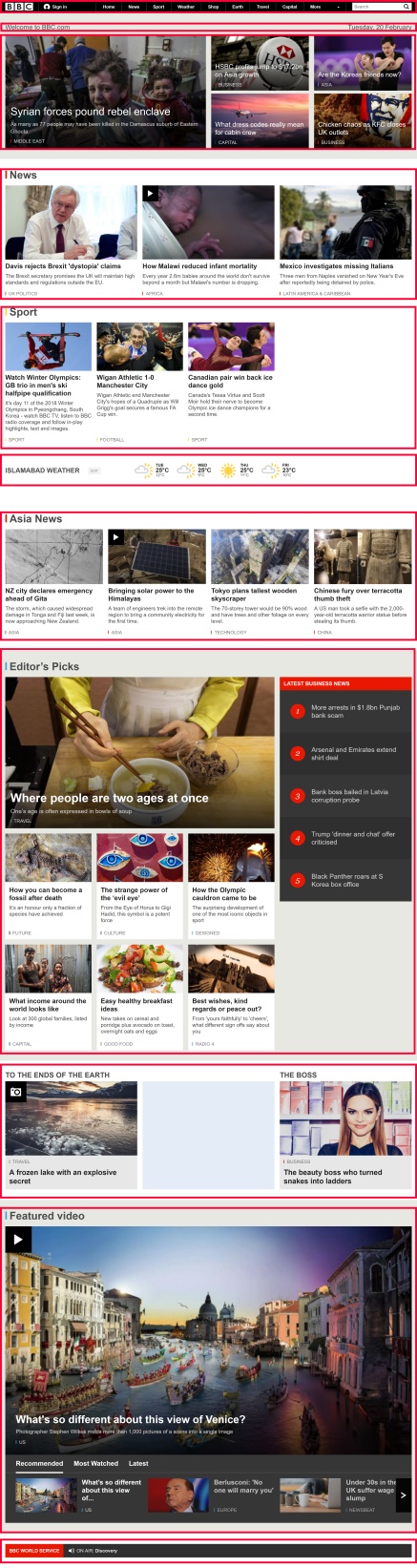
### Lab Task

### Task 1

In your previous lab, you have designed a website using tables which is similar to BBC’s website. Tables can be used to define the structure of a website; however, they are less flexible and difficult to handle complex structures. The layout of the BBC’s website can be designed using divisions (DIVs). A screenshot of the website is shown below:



While carefully observing this layout, one can easily identify that this design consists of several nested DIVs. Some of the DIVs are highlighted below.



**Your Task:**

Design a web page which has similar layout as shown in the above screenshots. Your layout must be based on DIVs (no tables). You are encouraged to use either internal CSS (using <style> tag) or external CSS (creating a file with .css extension and linking it in the <head> section using <link> tag). An example CSS file is uploaded along with this assignment. You are also encouraged to use different HTML tags and CSS styles you learned so far to beautify the solution.

**Hints**

1. Feel free to browse BBC’s website and look into its page source to see how the layout is designed.
2. You can change the color scheme as per your choice.
3. BBC’s website has a menu (More) and a search bar. You can skip both in your layout.
4. You are encouraged to use most of the HTML tags and CSS styles you have learned so far or even new tags, which you can learn from W3Schools.
5. Make good use of HTML colors, fonts, font-family, font-sizes and other styles for the ***look and feel*** of the web page.
6. Make sure to test your website with different resolutions by changing the resolution of your screen.

**Important:** Upload your html and CSS files along with the solution.

|  |
| --- |
| Solution |
| Screenshot of web page    HTML Code  <!DOCTYPE html>  <html>  <head>    <meta charset="utf-8" />    <meta http-equiv="X-UA-Compatible" content="IE=edge" />    <title>BBC-Homepage</title>    <meta name="description" content="" />    <meta name="viewport" content="width=device-width, initial-scale=1" />    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"      integrity="sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="      crossorigin="anonymous" referrerpolicy="no-referrer" />    <style>      body {        width: 100vw;        margin: 0%;        padding: 0%;        overflow-x: hidden;        font-family: Arial, Helvetica, sans-serif;      }      img {        width: 100%;        object-fit: fill;      }      .navbar {        background-color: black;        color: white;        display: flex;        justify-content: space-around;      }      .navbar i {        color: white;        font-size: 30px;      }      .navbar div {        display: flex;        justify-content: center;        align-items: center;        margin: 0 5px;      }      .navbar .heading {        display: flex;        justify-content: space-between;        width: 50%;      }      .navbar img {        width: 120px;        margin-left: 50px;      }      .navbar span {        width: 15%;        display: flex;        align-items: center;        justify-content: flex-start;        margin: 8px;        padding: 8px;        margin-left: -60px;        background-color: #3a3c3e;        font-size: 13px;      }      .navbar div h5:hover,      .navbar div i:hover,      .navbar span:hover,      .navbar .signin:hover,      .navbar img:hover {        opacity: 0.7;        cursor: pointer;      }      .welcome {        max-width: 90%;        margin: auto;        display: flex;        justify-content: space-between;      }      .welcome .date {        color: #9b8c8c;      }      .fivegrid {        width: 90%;        margin: auto;        color: white;      }      .fivegrid .largeimg {        float: left;        width: 50%;      }      .fivegrid .largeimg div {        position: relative;        margin-top: -150px;        margin-left: 10px;      }      .fivegrid .fourgrid>div {        float: right;        width: 24.25%;        margin-left: 10px;        margin-bottom: 3px;      }      .fivegrid .fourgrid>div div {        margin-top: -110px;        margin-left: 10px;      }      .section-heading {        margin: 30px 6%;        display: flex;        align-items: center;        font-size: 30px;      }      .section-heading span {        font-weight: bolder;        font-size: 40px;        position: relative;        margin-top: -4px;        margin-right: 5px;      }      .news {        display: flex;        justify-content: space-between;        width: 90%;        margin: auto;      }      .news>div {        width: 32%;      }      .asianews {        display: flex;        justify-content: space-between;        width: 90%;        margin: auto;      }      .asianews>div {        width: 24%;      }  .footbck{    width: 100%;    background-color: #4C4C4C;  }  .footer{    width: 75%;    display: flex;    margin: auto;    margin-top: 20px;    flex-direction: column;  }  .footer{    margin-top: 50px;     color: white;     line-height: 10px;     font-size: small;     margin-bottom: 20px;  }  .footer > div {    display: flex;    justify-content: space-between;    border-bottom: 0.5px solid #707070;    padding-bottom: 20px;    padding-right: 10%;  }  .footer >div div:not(:first-of-type) {    border-left: 0.5px solid #707070;    padding-left: 30px;  }  .footer hr{    background-color: whitesmoke;    height: 10px;  }    </style>  </head>  <body>    <!-- Navbar -->    <div class="navbar">      <div>        <div>          <img src="./images/logo.png" alt="logo" />        </div>        <div class="signin">          <svg style="fill: white" width="35px" height="auto" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">            <g data-name="Layer 2">              <path d="M12 11a4 4 0 1 0-4-4 4 4 0 0 0 4 4zm6 10a1 1 0 0 0 1-1 7 7 0 0 0-14 0 1 1 0 0 0 1 1z"                data-name="person" />            </g>          </svg>          <h3>Sign in</h3>        </div>      </div>      <div class="heading">        <h5>Home</h5>        <h5>News</h5>        <h5>Sport</h5>        <h5>Reel</h5>        <h5>Worklife</h5>        <h5>Travel</h5>        <h5>Future</h5>        <h5>Culture</h5>        <i class="fa-sharp fa-solid fa-ellipsis"></i>      </div>      <span>        <svg style="fill: white; width: 15px; height: 15px" xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">          <g data-name="Layer 2">            <path              d="m20.71 19.29-3.4-3.39A7.92 7.92 0 0 0 19 11a8 8 0 1 0-8 8 7.92 7.92 0 0 0 4.9-1.69l3.39 3.4a1 1 0 0 0 1.42 0 1 1 0 0 0 0-1.42zM5 11a6 6 0 1 1 6 6 6 6 0 0 1-6-6z"              data-name="search" />          </g>        </svg>        &nbsp; Search BBC      </span>    </div>    <!-- Welcome and Date -->    <div class="welcome">      <h2>Welcome to BBC.com</h2>      <h2 class="date">Thursday,29 September</h2>    </div>    <!-- Five Grid -->    <div class="fivegrid">      <div class="largeimg">        <img src="https://ichef.bbci.co.uk/news/976/cpsprodpb/F121/production/\_126892716\_kremre.jpg.webp" alt="" />        <div>          <h2>Russia to formally annex four more areas of Ukraine</h2>          <p>            Russia is to press ahead with annexation days after conducting            unrecognised referendums.          </p>          <p>            &nbsp; &nbsp;            <span style="color: red"><b>|&nbsp; </b></span>EUROPE          </p>        </div>      </div>      <div class="fourgrid">        <div>          <img            src="https://ichef.bbci.co.uk/news/976/cpsprodpb/5487/production/\_126893612\_7d66af1c96925a4c1088b19e928fc7cf5af6ef49.jpg.webp"            alt="" />          <div>            <h3>Finland closes border to Russian tourists</h3>            <p>              &nbsp; &nbsp;              <span style="color: #47a1d8"><b>|&nbsp; </b></span>EUROPE            </p>          </div>        </div>        <div>          <img src="https://ichef.bbci.co.uk/news/976/cpsprodpb/ACB1/production/\_126890244\_coolio\_getty.jpg.webp"            alt="" />          <div>            <h3>Pfeiffer and Snoop lead trivutes to rapper Coolio</h3>            <p>              &nbsp; &nbsp;              <span style="color: #47a1d8"><b>|&nbsp; </b></span>ENTERTAINMENT &              ARTS            </p>          </div>        </div>        <div>          <img src="https://ychef.files.bbci.co.uk/1600x900/p0cyt548.webp" alt="" />          <div>            <h3>Why a 1922 horror film still terrifies</h3>            <p>              &nbsp; &nbsp;              <span style="color: #47a1d8"><b>|&nbsp; </b></span>CULTURE            </p>          </div>        </div>        <div>          <img src="https://ychef.files.bbci.co.uk/1600x900/p0d2zz7t.webp" alt="" />          <div>            <h3>The dark side of hidden overwork</h3>            <p>              &nbsp; &nbsp;              <span style="color: #47a1d8"><b>|&nbsp; </b></span>WORKLIFE            </p>          </div>        </div>      </div>      <div style="clear: both;"></div>    </div>    <!-- News -->    <div class="section-heading">      <span style="color: #ff0000">|</span>      <h1>      </h1>News</h1>    </div>    <div class="news">      <div> <img          src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/7B97/production/\_126893613\_7d66af1c96925a4c1088b19e928fc7cf5af6ef49.jpg"          alt="ship" />        <div>          <h3>Finland closes border to Russian tourists</h3>          <p>            it now means all Russia's European Union neighbours have shut their            borders to its tourists.          </p>          <span style="color: #ff0000"><b>|&nbsp; </b></span>EUROPE        </div>      </div>      <div>        <img src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/2C37/production/\_126891311\_leakreuters.jpg" alt="Smoke" />        <div>          <h3>US Army doctor and wife charged with Russia spying</h3>          <p>            The army major doctor and her wife, a civillain doctor, are charged            over plans to leak health information.          </p>          <span style="color: #ff0000"><b>|&nbsp; </b></span>US & CANADA        </div>      </div>      <div>        <img          src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/0DB5/production/\_126890530\_28.kidsatfencelineinfrontofgasflaringfromnahranomarextrawide-chusseinfaleh\_bbc-1.jpg"          alt="flame" />        <div>          <h3>PM to meet fiscal watchdog after market tumoil</h3>          <p>            Liz Truss and the Chancellor Kwasi Kwarteng will meet the            independent forecaster the OBR on Friday.          </p>          <span style="color: #ff0000"><b>|&nbsp; </b></span>UK POLITICS        </div>      </div>    </div>    <!-- Sports -->    <div class="section-heading">      <span style="color: yellow">|</span>      <h1>      </h1>Sport</h1>    </div>    <div class="news">      <div>        <img src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/86D7/production/\_126891543\_boxingsplit.png" alt="ship" />        <div>          <h3>Fury again urges Joshua to sign fight contract</h3>          <p>            Tyson Fury urges fellow British heavyweight Anthony Joshua to sign a            contract for a world-title fight in December.          </p>          <span style="color: yellow"><b>|&nbsp; </b></span>BOXING        </div>      </div>      <div>        <img src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/43ED/production/\_126898371\_bethmead\_getty.jpg" alt="Smoke" />        <div>          <h3>Concussion subs not allowed in Uefa competitions</h3>          <p>            Udfa confirms it does not allow concussion substitutions following            confusion over a head injury suffered by Beth Mead in Arsenal            women's game against Ajax.          </p>          <span style="color: yellow"><b>|&nbsp; </b></span>FOOTBALL        </div>      </div>      <div>        <img src="https://ichef.bbc.co.uk/wwhp/624/cpsprodpb/1555D/production/\_126898378\_gettyimages-1423195630.jpg"          alt="flame" />        <div>          <h3>PGA Tour launches LIV lawsuit counterclaim</h3>          <p>            The PGA Tour launches a counterclaim lawsuit against the            Saudi-backed LIV Golf series, saying it enticed players to breach            contracts and help's sportswash' the nation's human rights record.          </p>          <span style="color: yellow"><b>|&nbsp; </b></span>        </div>      </div>    </div>  <!-- Asia News -->   <div class="section-heading">      <span style="color: blue">|</span>      <h1>      </h1>Asia News</h1>    </div>      <div class="asianews">      <div>          <img              src="https://ichef.bbc.co.uk/wwhp/304/cpsprodpb/A077/production/\_126897014\_mediaitem126897013.jpg"              alt="ship"            />      <div>            <h3>Flurry of N Korea missiles for Kamala Harris visit</h3>            <p>              The US vice-president's visit to South Korea saw aseries of banned              missile launches by the North.            </p>            <span style="color: blue"><b>|&nbsp; </b></span>Asia        </div>      </div>      <div>            <img              src="https://ichef.bbc.co.uk/wwhp/304/cpsprodpb/1843C/production/\_126888399\_seanturnellandaungsansuukyi.png"              alt="Smoke"            />      <div>            <h3>Australian adviser to Suu Kyi jailed in Myanmar</h3>            <p>              Sean Turnell was sentenced with the country's ousted leader to three              years for breaching state secrets.            </p>            <span style="color: blue"><b>|&nbsp; </b></span>Asia        </div>      </div>      <div>          <img              src="https://ichef.bbc.co.uk/wwhp/304/cpsprodpb/409B/production/\_126893561\_mobile\_phone\_2\_getty.jpg"              alt="flame"            />        <div>            <h3>How a massive data breach has exposed Australia</h3>            <p>              Anger rises after 40% of Australians had details stolen in possibly              the nation's worst-ever breach.            </p>            <span style="color: blue"><b>|&nbsp; </b></span>AUSTRALIA        </div>      </div>      <div>          <img              src="https://ichef.bbc.co.uk/wwhp/304/cpsprodpb/A918/production/\_126888234\_neveragainepa.jpg"              alt="flame"            />        <div>            <h3>Fighting to remember a decade of torture in the Philippines</h3>            <p>              Many young Filipinos know little about a decade of martial law that              saw thousands arrested and killed            </p>            <span style="color: blue"><b>|&nbsp; </b></span>ASIA        </div>      </div>    </div>    <div class="footbck">      <div class="footer">      <h2>Explore the BBC</h2>      <div>        <div>          <h5>Home</h5>          <h5>Future</h5>        </div>        <div>          <h5>News</h5>          <h5>Culture</h5>        </div>        <div>          <h5>Sport</h5>          <h5>TV</h5>        </div>        <div>          <h5>Reel</h5>          <h5>Weather</h5>        </div>        <div>          <h5>Worklife</h5>          <h5>Sounds</h5>        </div>        <div>          <div>            <h5>Travel</h5>          </div>        </div>      </div>      <p>Terms of Use  &nbsp;&nbsp; About the BBC  &nbsp;&nbsp; Privacy Policy  &nbsp;&nbsp; Cookies  &nbsp;&nbsp; Accessibility Help  &nbsp;&nbsp; Parental Guidance  &nbsp;&nbsp; Contact the BBC  &nbsp;&nbsp; BBC emails for you  &nbsp;&nbsp; Advertise with us  &nbsp;&nbsp; AdChoices / Do Not Sell My Info  </p>  <p>  Copyright © 2022 BBC. The BBC is not responsible    for the content of external sites. Read about our approach to external linking.</p>    </div>    </div>  </body>  </html> |

### Deliverables

Compile a single word document by filling in the solution part and submit this Word file on LMS. You must include your name, ID, and class on first page. The lab grading policy is as follows: The lab is graded between 0 to 10 marks. For some of the labs, students have to present their solutions in a viva session. In case of any problems with submissions on LMS, you should contact your lab engineer Ms. Ayesha Asif by email at [ayesha.asif@seecs.edu.pk](mailto:ayesha.asif@seecs.edu.pk).