# Department of Computing

**CS-344: Web Engineering**

**Class:** BESE-9AB

# Lab 04: CSS

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**Date: November 5, 2020**

# Instructor: Dr. Qaiser Riaz

# 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.

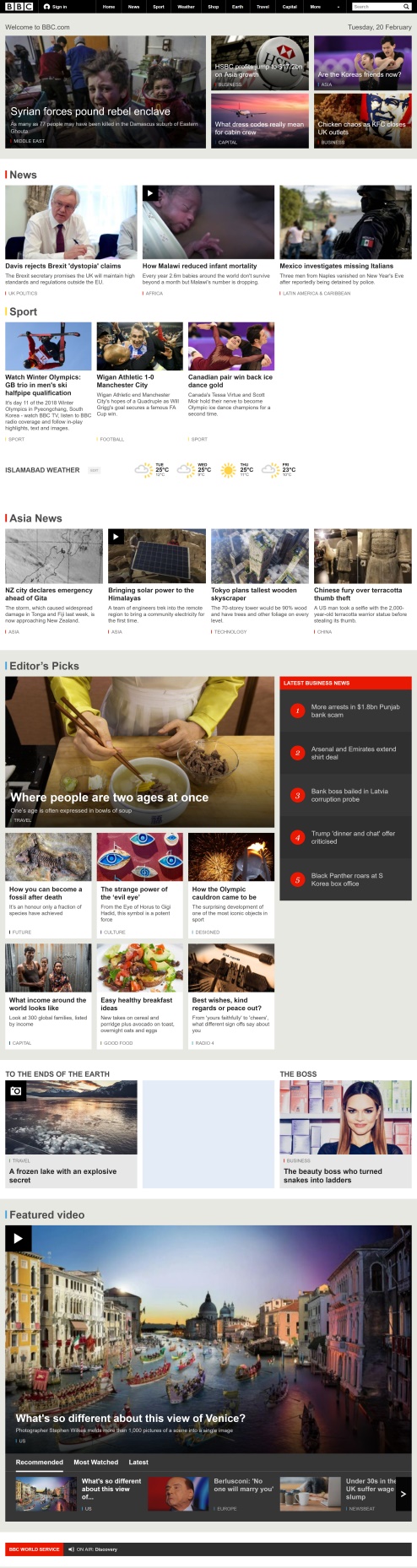
W3Schools: <https://www.w3schools.com/html/default.asp>

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

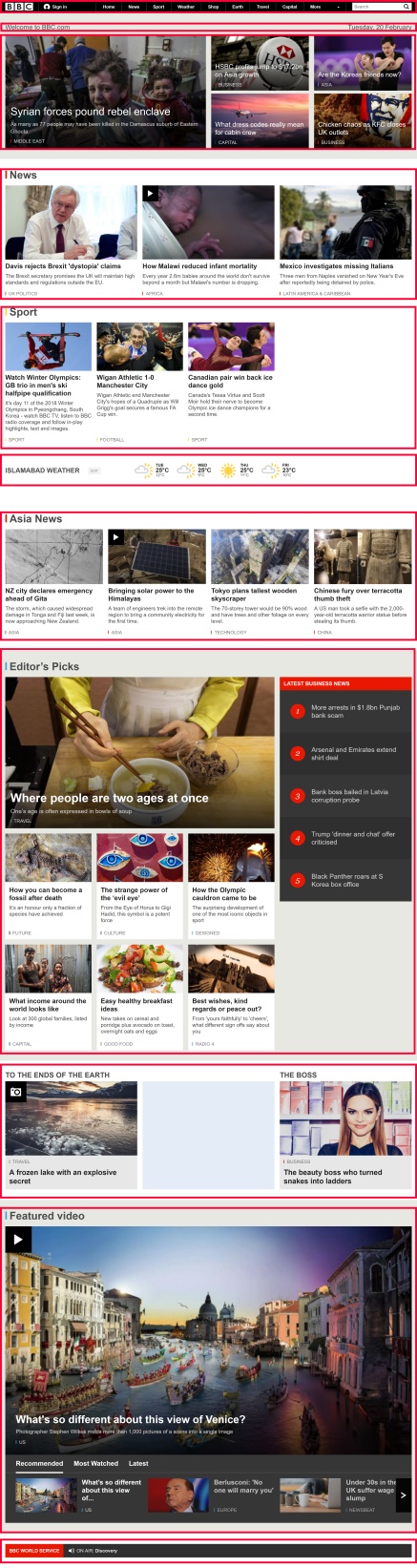
### Lab Task

### 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   1. <!DOCTYPE html> 2. <html> 3. <head> 4. <title>Lab 4</title> 5. <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300&display=swap" rel="stylesheet"> 7. <style type="text/css"> 8. \*{ 9. font-family: 'Poppins', sans-serif; 10. }   14. .container{ 15. float: left;  18. padding: 5px; 19. } 21. .center{ 22. display: flex; 23. /\*  justify-content: center;\*/ 24. }   28. .clear{ 29. clear: left; 30. } 32. h3{ 33. width: 70%; 34. margin: auto; 35. line-height: 5px; 36. padding: 20px; 37. border-left: 5px solid red; 39. } 40. h2{ 41. padding-top: 20px; 42. line-height: 0.5px; 43. } 45. .sec-5{ 46. width: 70%; 47. margin: auto; 49. } 51. .float{ 52. float: left; 54. } 56. .pad{ 57. padding: 10px; 58. padding-top: 20px; 59. } 61. .class-img{ 62. width: 300px; 63. height: 200px; 65. } 67. .class-img3{ 68. width: 195px; 69. height: 100px; 71. } 73. .class-img2{ 74. width: 230px; 75. height: 130px; 77. } 79. .class-img4{ 80. width: 480px; 81. height: 250px; 83. } 85. .class-img5{ 86. width: 317px; 87. height: 200px; 89. }     95. .img-sec1{ 96. width: 280px ; height: 173px 97. } 99. .grid{ 101. display: flex; 102. justify-content: center; 103. } 105. .brd{ 106. border:1px solid; 107. margin: 2px; 108. } 110. .brd2{ 111. border:1px solid white; 112. margin: 2px; 113. } 115. .back-img{ 116. background:linear-gradient(0deg, rgba(0, 0, 0, 0.7), rgba(0, 0, 0, 0.7)), url(7.jpg); 117. background-size: cover; 119. min-height: 400px; 120. } 122. .back-img2{ 123. background:linear-gradient(0deg, rgba(0, 0, 0, 0.7), rgba(0, 0, 0, 0.7)), url(12.jpg); 124. background-size: cover; 126. min-height: 400px; 127. } 128. .sec-3-content{ 129. width: 70%; 130. margin:auto; 131. color: white; 133. } 135. .sec-8-1{ 137. box-sizing: border-box; 138. width: 60%; 139. float: left; 140. padding-left:15%; 141. /\*padding-right: 5%!important;\*/ 143. }   147. .sec-8-3{ 149. box-sizing: border-box; 150. width: 60%; 151. float: right; 152. padding-right:15%; 153. /\*padding-right: 5%!important;\*/ 155. } 157. .sec-8-2{ 158. background-color: #363636; 159. box-sizing: border-box; 160. width: 24%; 161. height: 700px; 163. float: left; 164. padding-left: 8px; 165. padding-right: 8px; 167. margin-right: 15px; 168. vertical-align: top; 170. } 171. .sec-8-4{ 172. background-color: #363636; 173. box-sizing: border-box; 174. width: 24%; 175. height: 700px; 177. float: right; 178. padding-left: 8px; 179. padding-right: 8px; 181. margin-right: 15px; 182. vertical-align: top; 184. } 186. .centered-thing { 187. width: 72%; 188. margin: 0 auto; 189. background-color: f4f4f4; 190. }   194. </style> 195. </head>   199. <body> 201. <!-- section 1 --> 202. <div style="width: 90%;margin: auto;"> 203. <h4 style="float: left;">Welcome to BBC.com</h4> 204. <h4 style="float: right;">Thursday,5 November</h4> 205. </div> 207. <div class="clear center" style="margin-left: 5%;margin-right: 5%"> 208. <div class="container"> 209. <img  src="1.jpg"> 210. </div> 212. <div class="container"> 213. <img class="img-sec1" src="w.jpg"> 214. <img class="img-sec1" src="w.jpg"> 215. </div> 217. <div class="container"> 218. <img class="img-sec1" src="w.jpg"> 219. <img class="img-sec1" src="w.jpg"> 220. </div> 221. </div>  224. <!-- section 2 --> 226. <section class="pad"><h3>News</h3></section> 228. <div class="grid"> 229. <div class="brd"> 230. <img  class=" class-img" src="9.jpg"> 231. <p align="center">Title of the Blog</p> 232. </div> 233. <div class="brd"> 234. <img  class=" class-img" src="9.jpg"> 235. <p align="center">Title of the Blog</p> 236. </div> 237. <div class="brd"> 238. <img  class=" class-img" src="9.jpg"> 239. <p align="center">Title of the Blog</p> 240. </div> 242. </div> 244. <!-- section 3 --> 246. <section class="pad"><h3>Sports</h3></section> 248. <div class="grid"> 249. <div class="brd"> 250. <img  class=" class-img" src="13.jpg"> 251. <p align="center">Title of the Blog</p> 252. </div> 253. <div class="brd"> 254. <img  class=" class-img" src="13.jpg"> 255. <p align="center">Title of the Blog</p> 256. </div> 257. <div class="brd"> 258. <img  class=" class-img" src="13.jpg"> 259. <p align="center">Title of the Blog</p> 260. </div> 262. </div> 264. <!-- section 4 --> 266. <section class="pad"><h3>US Election 2020</h3></section> 268. <div class="grid"> 269. <div class="brd"> 270. <img  class=" class-img" src="15.jpg"> 271. <p align="center">Title of the Blog</p> 272. </div> 273. <div class="brd"> 274. <img  class=" class-img" src="15.jpg"> 275. <p align="center">Title of the Blog</p> 276. </div> 277. <div class="brd"> 278. <img  class=" class-img" src="15.jpg"> 279. <p align="center">Title of the Blog</p> 280. </div> 282. </div> 284. <!-- section 5 --> 286. <section class="pad"><h3>Singapore Weather</h3></section> 287. <div class="sec-5"> 288. <img  src="20.jpg"> 289. <img  src="20.jpg"> 290. <img  src="20.jpg"> 291. <img  src="20.jpg"> 292. </div>   296. <!-- section 6 297. --> 299. <div class="back-img"> 300. <section class="sec-3-content"> 301. <h2>Future Planet</h2> 302. <section style="padding: 10px;"><p>Solutions for a sustainable world</p></section> 303. </section> 305. <div class="grid "> 306. <div class="brd2"> 307. <img  class=" class-img" src="17.jpg"> 308. <p align="center" style="color: white">Title of the Blog</p> 309. </div> 310. <div class="brd2"> 311. <img  class=" class-img" src="17.jpg"> 312. <p align="center" style="color: white">Title of the Blog</p> 313. </div> 314. <div class="brd2"> 315. <img  class=" class-img" src="17.jpg"> 316. <p align="center" style="color: white">Title of the Blog</p> 317. </div> 319. </div> 321. </div>  324. <!-- section 7 --> 326. <section class="pad"><h3>Asia News</h3></section> 328. <div class="grid"> 329. <div class="brd"> 330. <img  class=" class-img2" src="10.jpg"> 331. <p align="center">Title of the Blog</p> 332. </div> 333. <div class="brd"> 334. <img  class=" class-img2" src="10.jpg"> 335. <p align="center">Title of the Blog</p> 336. </div> 337. <div class="brd"> 338. <img  class=" class-img2" src="10.jpg"> 339. <p align="center">Title of the Blog</p> 340. </div> 342. <div class="brd"> 343. <img  class=" class-img2" src="10.jpg"> 344. <p align="center">Title of the Blog</p> 345. </div> 347. </div> 348. <!-- 349. section 8 350. --> 352. <div style="" > 353. <section class="pad"><h3>Editor's Picks</h3></section> 354. <div class=""> 355. <div class="sec-8-1"> 357. <img src="14.jpg">  360. <div class="grid"> 361. <div class="brd"> 362. <img  class=" class-img3" src="11.jpg"> 363. <p align="center">Title of the Blog</p> 364. </div> 365. <div class="brd"> 366. <img  class=" class-img3" src="11.jpg"> 367. <p align="center">Title of the Blog</p> 368. </div> 369. <div class="brd "> 370. <img  class=" class-img3" src="11.jpg"> 371. <p align="center">Title of the Blog</p> 372. </div> 373. <br>  376. </div>    381. <div class="">   385. <div class="grid"> 386. <div class="brd"> 387. 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Lockdown: 'I swing between anger, hope, despair' 418. </li> 419. <li> 420. Lockdown: 'I swing between anger, hope, despair' 421. </li> 422. <li> 423. Lockdown: 'I swing between anger, hope, despair' 424. </li> 425. </ul>  428. </div>  431. </div> 433. <!-- section 9 --> 434. <section class="back-img2 clear"> 435. <div > 436. <section class="sec-3-content"> 437. <h2>Future Planet</h2> 438. <section style="padding: 10px;"><p>Solutions for a sustainable world</p></section> 439. </section> 441. <div class="grid "> 442. <div class="brd2"> 443. <img  class=" class-img" src="17.jpg"> 444. <p align="center" style="color: white">Title of the Blog</p> 445. </div> 446. <div class="brd2"> 447. <img  class=" class-img" src="17.jpg"> 448. <p align="center" style="color: white">Title of the Blog</p> 449. </div> 450. <div class="brd2"> 451. <img  class=" class-img" src="17.jpg"> 452. <p align="center" style="color: white">Title of the Blog</p> 453. </div> 455. </div> 457. </div>    462. </section> 463. <!-- 464. section 10 --> 466. <section class="pad"><h3>Sports</h3></section> 468. <div class="grid"> 469. <div class="brd"> 470. <img  class=" class-img4" src="13.jpg"> 471. <p align="center">Title of the Blog</p> 472. </div> 473. <div class="brd"> 474. <img  class=" class-img4" src="13.jpg"> 475. <p align="center">Title of the Blog</p> 476. </div> 478. </div> 480. <section style="background-color: #f5f5f5;"> 481. <section style="padding: 10px;"><h3>Featured Video</h3></section> 482. <section class="centered-thing" >   486. <iframe width="100%" height="550" 487. src="https://www.youtube.com/embed/tgbNymZ7vqY?"> 488. </iframe> 489. </section>  492. </section> 494. <div class="centered-thing" style="margin-top: 15px; margin-bottom: 15px;"> 495. <div style="background-color: red ; width: 20% ;height: 50px ;" class="float"> 497. <h5 style="line-height: 1px ; padding: 5px; color: white">BBC World Service</h5> 499. </div> 501. <div class="float" style="box-sizing: border-box; width: 80% ; background-color: #2f2f2f;line-height: 5px;padding-left: 5px"> 502. <h5 style="color: white">On Air : Newsday</h5> 504. </div> 505. </div> 507. <!-- section 11 -->  510. <div class="clear"  > 511. <section class="pad"><h3>Editor's Picks</h3></section> 512. <div class=""> 513. <div class="sec-8-3"> 515. <img src="14.jpg">  518. <div class="grid"> 519. <div class="brd"> 520. <img  class=" class-img3" src="11.jpg"> 521. <p align="center">Title of the Blog</p> 522. </div> 523. <div class="brd"> 524. <img  class=" class-img3" src="11.jpg"> 525. <p align="center">Title of the Blog</p> 526. </div> 527. <div class="brd "> 528. <img  class=" class-img3" src="11.jpg"> 529. <p align="center">Title of the Blog</p> 530. </div> 531. <br>  534. </div>    539. <div class="">   543. <div class="grid"> 544. <div class="brd"> 545. <img  class=" class-img3" src="11.jpg"> 546. <p align="center">Title of the Blog</p> 547. </div> 548. <div class="brd"> 549. <img  class=" class-img3" src="11.jpg"> 550. <p align="center">Title of the Blog</p> 551. </div> 552. <div class="brd "> 553. <img  class=" class-img3" src="11.jpg"> 554. <p align="center">Title of the Blog</p> 555. </div> 556. <br>  559. </div>  562. </div> 564. </div>   568. </div> 570. <div class=" sec-8-4"> 571. <div style="background-color: red; margin-left: -8px;margin-right: -8px"><h4 style="color: white;margin: 0px">Latest Business News</h4></div> 573. <ul style="color: white"> 574. <li> 575. 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Lockdown: 'I swing between anger, hope, despair' 582. </li> 583. </ul>  586. </div>  589. </div> 591. <!-- section 12 --> 593. <section class="pad" style="clear: both;"><h3>Sports</h3></section> 595. <div class=" grid">  598. <div class=""> 599. <h4>Equality Matters</h4> 600. <div class="brd"> 601. <img  class=" class-img4" src="13.jpg"> 602. <p align="center">Title of the Blog</p> 603. </div> 604. </div> 606. <div class=""> 607. <h4>Equality Matters</h4> 608. <div class="brd"> 609. <img  class=" class-img4" src="13.jpg"> 610. <p align="center">Title of the Blog</p> 611. </div> 612. </div> 614. </div>  617. <!--  section 13 --> 619. <section class="pad"><h3>US Election 2020</h3></section> 621. <div class="grid"> 622. <div class="brd"> 623. <img  class=" class-img4" src="15.jpg"> 624. <p align="center">Title of the Blog</p> 625. </div> 626. <div class="brd"> 627. <img  class=" class-img4" src="15.jpg"> 628. <p align="center">Title of the Blog</p> 629. </div> 631. </div>  634. <div class="grid"> 635. <div class="brd"> 636. <img  class=" class-img5" src="16.jpg"> 637. <p align="center">Title of the Blog</p> 638. </div> 639. <div class="brd"> 640. <img  class=" class-img5" src="16.jpg"> 641. <p align="center">Title of the Blog</p> 642. </div> 643. <div class="brd"> 644. <img  class=" class-img5" src="16.jpg"> 645. <p align="center">Title of the Blog</p> 646. </div> 648. </div> 650. <!-- last section --> 651. <section style="background-color: black"> 652. <p align="center" style="color: white ; font-size: 12px ; line-height: 40px">Copyright © 2020 BBC. The BBC is not responsible for the content of external sites. Read about our approach to external linking.</p> 653. </section>    658. </body> 659. </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 Mr. Aftab Hussain by email at [aftab.hussain1@seecs.edu.pk](mailto:aftab.hussain1@seecs.edu.pk).