

Front End Development / Interactive Development Diploma in Immersive Media, Diploma in Information Technology Year 1 (2023/24) Semester 1.2	Version 1
	Date Nov 2024
More CSS & Responsive Design	Week 3

Overview


Media queries help us to better define breakpoints to allow different CSS rules to apply according to the device size. It is one of the ways to perform responsive layouts.

Flexboxes are a great way to perform responsive layouts. It is able to resize well according to screen sizes.

Wireframing tells us a story and guides us through our design and development process

Objectives

WHAT YOU NEED

- **Programs:** Any internet browser
- **Text editor:**
 - VS Code
- **Time** 

TUTORIAL/PRACTICAL

BEFORE YOU START

You can rename the CA folder to **ModuleName-Wk03-studentid-studentname**, add additional folders for each challenge question.

For all questions, apply good web development coding practises.

SUBMISSION

1. Submit zipped folder to Brightspace > Week 3

Question 1 - Forms

Design and create a simple signup form using HTML form elements that utilizes form validation.

1. Create a subfolder called “**wk03-forms**” inside your ID-wk03... folder
2. Create a HTML file **index.html** to contain the signup form

Your form interface must include AT LEAST the following:

- 3 x text input with different input types (e.g date, time, text, etc)
- 1 x radio button with 4 options
- 1 x checkbox with 4 options
- 1 x text area
- 1 x submit button

Challenge: Apply additional CSS styling for the forms.

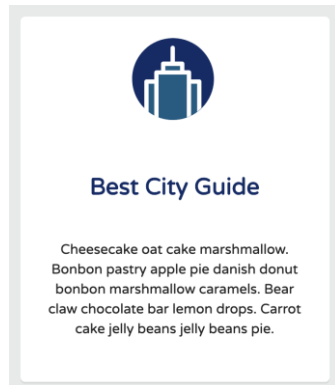
Question 2 - Z-index

1. Open the folder “**wk03-zindex**” in Visual Studio Code

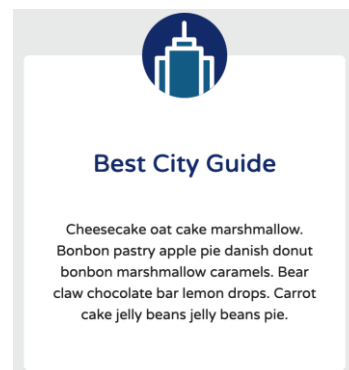
#TODO. Follow the instructions

- A. Select the class logo and give it absolute positioning.
- B. Next, give .logo a top offset of -45px and a left offset of 125px.
- C. The logo's absolute position is relative to the browser viewport. Make .card the new positioning context for .logo.

You do not need to replicate the gray background exactly



Before



After

Question 3 - Flexboxes

1. Create a subfolder “**wk03-flexboxes**” inside your wk03... folder
2. Complete the Flexbox game <https://flexboxfroggy.com/>
3. Read through about flexboxes and practise the examples
http://www.w3schools.com/css/css3_flexbox.asp
4. Open the folder wk03-ca-flex-skeleton in Visual Studio Code
5. Create a responsive box layout using Flexboxes as pictured for desktop and mobile sizes. The order and layout should re-position as shown.

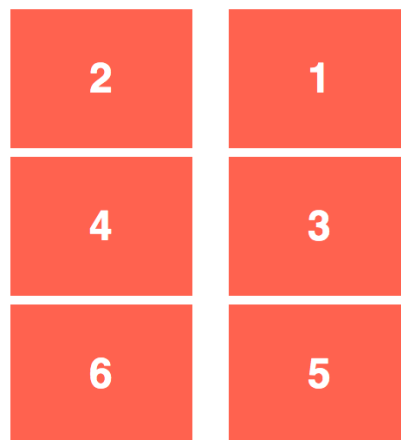
Questions on Flex? Check out this guide too.

<https://www.linkedin.com/learning/advanced-responsive-layouts-with-css-flexbox/welcome?u=42538748> >> LinkedIn learning is provided by NP. Read the guide on how to connect your account

https://www.np.edu.sg/library/databases/Documents/Visual_Guides/LinkedIn_How%20to%20access.pdf



Desktop view



Mobile View

6. Apply your own choice of fonts and CSS styles

Hint: Use media queries and something about reverse.

Additional reading: https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Flexbox

Challenge: Depending on different screen sizes, modify the colors, background colors of the flexboxes.

Question 4 – Create Online Newsletter

Learn how to follow the design and create the layout using html and css.

1. Open the folder “wk03-layout-practice” in Visual Studio Code and follow the instructions in “Week 03 Layout practice.pdf”
2. Complete the challenge by achieving the final output shown in the slides.

Submission

Submission link: Brightspace > Week 3

Deadline: Sunday 2359 hrs

References

http://www.w3schools.com/css/css3_flexbox.asp

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/#flexbox-background>