

Interactive Development Diploma in Immersive Media, Diploma in Information Technology Year 1 (2021/22) Semester 1.2	Version 1
	Date Nov 2022
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
- **Adobe XD**
- **Any Text editor:**
 - VS Code
 - Any Decent Editor
- **Time** 

TUTORIAL/PRACTICAL

BEFORE YOU START

Create a **working folder called IDWk03-studentid-studentname**, add additional folders for each challenge question.

For all questions, apply good web development coding practises.

DEADLINE: Before next class

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.

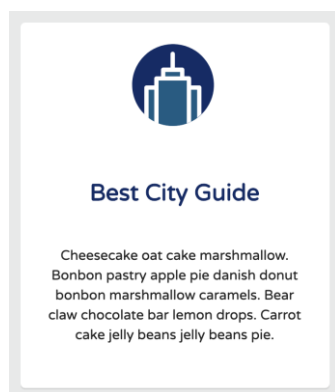
Question 2 - Z-index

1. Create a subfolder “**wk03-zindex**” inside your ID-wk03... folder
2. Download this repl.it folder and place the contents into your subfolder in step 1 **Use this repl.it to start** >>> <https://repl.it/@malcolmyam/wk03-ca-zindex#README.md>

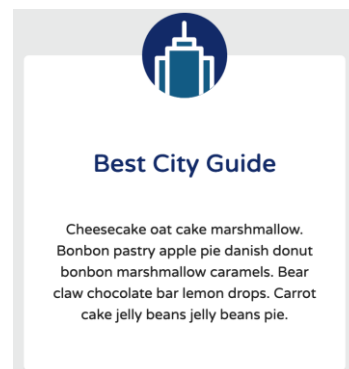
#TODO. Follow the instructions

- 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 ID-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. Create a file “index.html” using the base template
<https://repl.it/@malcolmyam/wk03-ca-flex-skeleton>
5. Create a responsive box layout using Flexboxes as pictured for desktop and mobile sizes. The order and layout should re-position as shown.

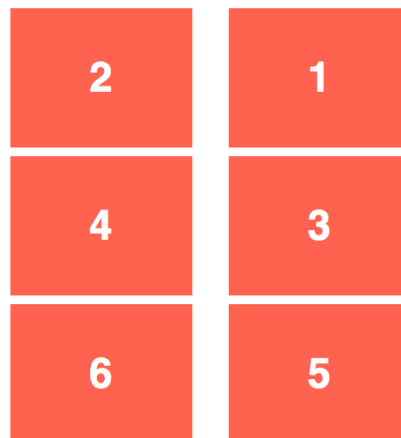
Questions on Flex? Check out this guide too.

<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 - Responsive About Me Page (Optional Challenge)

Design and create a responsive about me page using media queries and flexboxes.

1. Create a folder “**wk03-about me**”
2. Plan and design a wireframe using Adobe XD. Name your XD file **wk03-aboutme.xd**
 - a. New to XD? Check out these quick start tutorials
<https://helpx.adobe.com/xd/how-to/web-mobile-app-ui-ux-design-basics.html>
<https://letsxd.com/getting-started>
3. Use **semantic** HTML throughout your design
4. Include **normalize.css** to reset the CSS
<https://necolas.github.io/normalize.css/>
5. Choose and include a **font pair** to your design
6. Use **flexbox** to layout your content
7. Your page must include a form with at **least 3 useful fields** with meaningful validation
8. Include at least one suitable image
9. All file names should be meaningful
10. Pages must cater to different screen sizes
11. Apply suitable styling to the page

Additional Resources

Normalize: <https://necolas.github.io/normalize.css/>
<https://helpx.adobe.com/xd/tutorials.html>
<https://www.xdguru.com/adobe-xd-guide/artboards/>
<https://letsxd.com/getting-started>

Submission

Submission link: Brightspace > Week 3

Deadline: Before Week 4's Class

References

http://www.w3schools.com/css/css3_flexbox.asp
<https://css-tricks.com/snippets/css/a-guide-to-flexbox/#flexbox-background>