

COMP 2131 Assignment 2: CSS Animations

Total Marks: 10

Setup:

- Download the starter files from the learning hub.
- HTML and CSS code has been provided. You will write your styles in the file called **style.css**. **You may not edit the HTML code! (adding links to stylesheets is fine though.)**
- The purpose of this assignment is for you to use CSS Animations, learn about the **@keyframes** rule, **transform** and **transition** properties.
- **There is a demo video in the assignment folder that will show you what the site should look like when you're done.**

Task: Animation

- Notice that in the demo video when the mouse pointer hovers over the images, they grow slightly. Implement this behaviour using the **transform** property (to change the size of the image) and the **transition** property (to animate this change). Note that the animation should play when the mouse enters and leaves the images, *not* just when it enters.
- When the mouse pointer hovers over a menu item, the top, right, bottom and left borders appear in sequence. Implement this by using the **transition** property with multiple values.
 - **Hint:** animate the colors of the individual sides of the box. Remember that you can set the color of each side separately.
 - **Another hint:** remember that you can specify the delay for each animated property.
- Use the **@keyframes** rule to animate the background image. The image should move with constant speed to the right, and the animation should repeat indefinitely without any noticeable jumps.
 - **Hint:** Check the width, in pixels, of the background image. Note that in order for the animation to loop smoothly, the image should move to the right by a distance that is equivalent to its width. Use the **background-position** property to change the horizontal position of the background image.

Hand in:

When you have completed the assignment, rename the working folder to **a2_firstname_lastname**, zip it and hand it in to Assignment 2 folder.

Check your Work:

- Look at the demo video in the assignment folder. Is there anything you've missed?
- [3 marks] Grid items animation
- [3 marks] Menu items animation
- [3 marks] @keyframes rule Background Image animation
- [1 mark] Properly handed in

Total: 10 marks

Resources:

- Keyframes rule:
https://www.w3schools.com/cssref/css3_pr_animation-keyframes.asp
- Keyframes animation advanced:
<https://css-tricks.com/snippets/css/keyframe-animation-syntax/>
- Transition animations:
<https://css-tricks.com/almanac/properties/t/transition/>
- Transform property:
<https://css-tricks.com/almanac/properties/t/transform/>

Background texture by Welsley:

<https://www.transparenttextures.com/inspiration-geometry.html>

Acknowledgements and References:

- Jordan Millier, Langara College
- Mozilla Developer Network (MDN)
- W3Schools CSS Animations
https://www.w3schools.com/css/css3_animations.asp