

Animations activity

Course	23/24	Grup	S2WD	Delivery date	18/03 - 23:55
Module	Web design interfaces				
Title	Animations Activity				

Work type	Individual
Implementation guidelines	
<p>Follow the instructions provided for each exercise. You just need a computer with a text editor and a web browser to complete the tasks.</p> <p>Very important:</p> <ul style="list-style-type: none"> • Create an HTML file for each exercise with the necessary HTML structure and the required elements. • Style the elements using CSS to achieve the desired appearance. Include the CSS code inside the HTML file. • Apply CSS transforms, animations and transitions to the specified elements according to the exercise requirements. • Don't use Javascript at any of the exercises. <p>1 - Transform-only (1p) Design a webpage that shows a blue square div element that is 100x100 pixels in size, centered in the middle of the viewport, and rotated by 45 degrees counterclockwise. Explain what is a CSS transform and the process followed to create your solution.</p> <p>2 - Transition-only (1p) Create a webpage exercise that involves changing the background color of a box when hovered using a transition effect. It has to last 1s and change the color of the box from blue to red when hovering it. Explain what is a CSS transition and the process followed to create your solution.</p> <p>3 - Animation-only (1p) Construct a webpage with a weather section displaying various weather conditions using an image for each (sunny, cloudy, rainy and windy). Implement a CSS animation that simulates a weather forecast update. The animation has to start after 1 second and the weather icons should smoothly change from one to another every 2 seconds, such as from sunny to cloudy or rainy to windy, showing only one at a time. Use only animation properties, not transitions nor transforms. Don't use Javascript.</p>	

Explain what is a CSS transition and how the keyframes works and the process followed to create your solution.

4 - Combining transform and transition (2p)

Create a div element with blue background color. Define a transition property that lasts 2 seconds and has the effect of growing the element 5 times its original size when you hover over the element.

Only use transition and transform. Javascript not allowed.

Explain your solution.

5 - Combining transform and animation (2p)

Develop an animation where a red square is moving and rotating from its initial position describing a 400x200 pixels rectangle. The animation has to last 5 seconds and repeat forever.

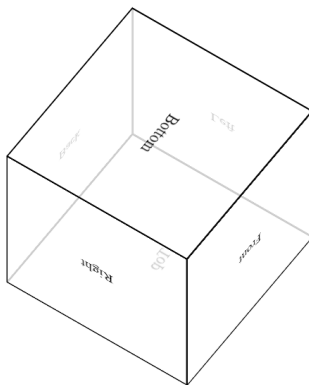
Explain your solution.

6 - Combining, transform, transition and animation (3p)

Create a 250px 3D cube that is rotating in both X and Y axes. All 6 faces of the cube must show its name: front, back, left, right, top, bottom.

Use transform to place every face to the correct position and *transform-style: preserve-3d*; property to keep it fixed.

The rotation will take 5 seconds to complete. It should looks like this:



To deliver:

- A separate HTML file for each exercise.
- A PDF file with the definitions and explanations of your solutions.

Justifying your decisions is very important. Always explain how you get to the delivered solution for each section. Without your explanation it can not be evaluated.

Create a ZIP with all the files and upload to the activity delivery section.