Animations and Keyframes

Required Tool: Text Editor and Google Chrome Web Inspector

A shorter assignment this week! We'll be going into animations, which have the power to bring an extra touch of excitement to your website.

Assignment
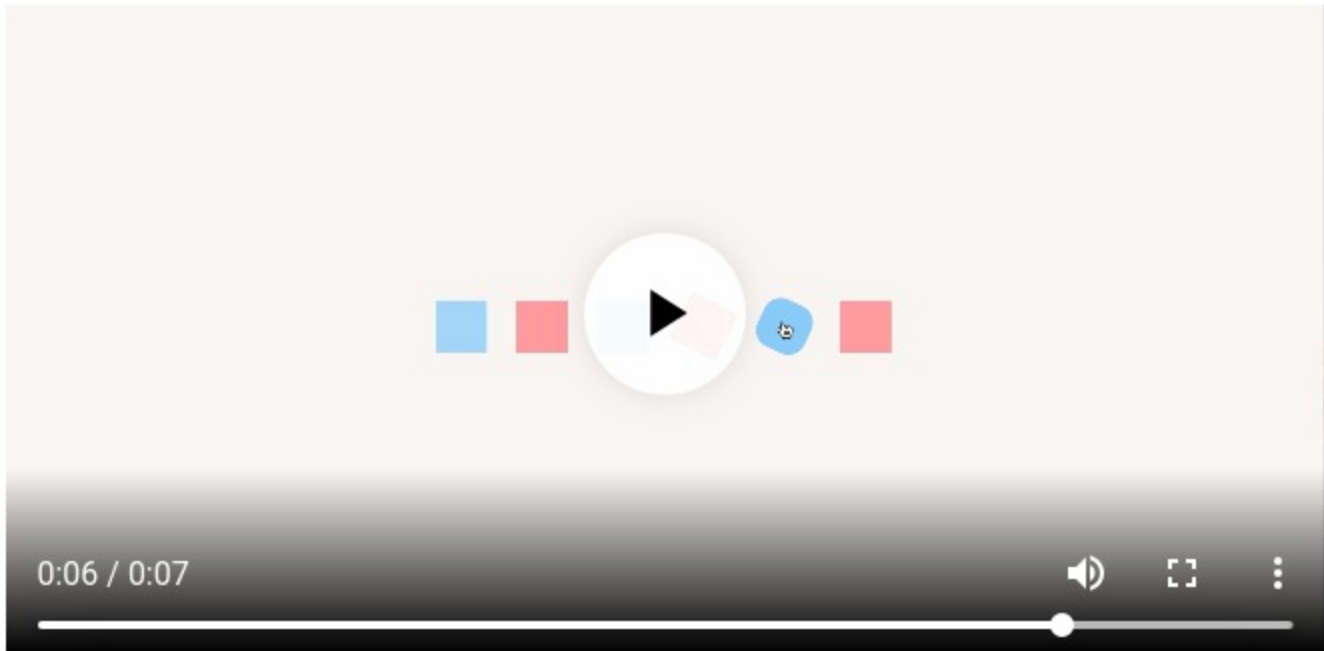
You can download the assignment file here:

Download File

You must NOT make any changes to HTML document in these questions. All of your changes should only be q1.css and q2.css.
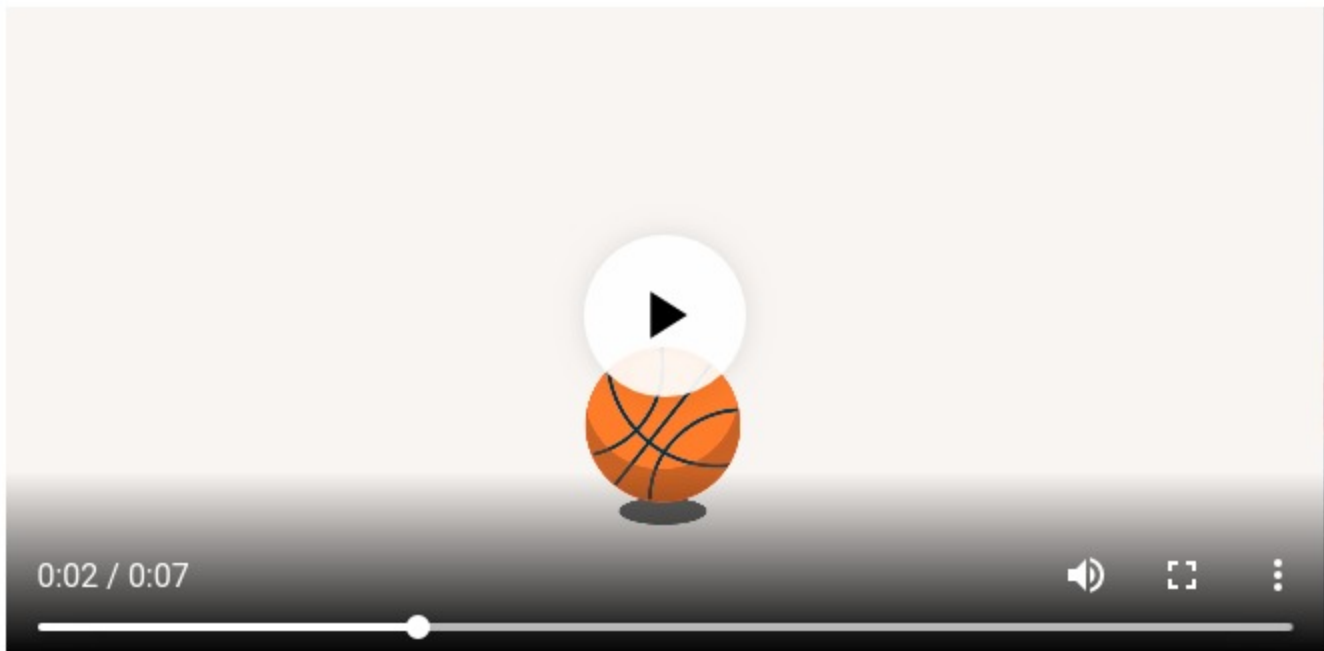
Question 1: Transition and Pseudoselectors

Remember pseudoselectors? In this problem, we'll be adding pseudoselectors to the button class so they'll animate when hovered over.

Add code so that, when hovered over, the buttons rotate 180 degrees, have full opacity, and become a circle. These changes should be smooth (we're animating, after all!) and take 0.45 seconds. See the video below for the final result.

0:06 / 0:07

Question 2: Keyframes

In this part, we'll be working with keyframes, which give us more control over the animations with how they execute, how long they execute for, etc. We'll be animating a basketball to bounce up and down infinitely, as seen below:

0:02 / 0:07

- Part 1: Create a keyframe animation for the ball bounce. The ball should `translate` from its starting Y value of `-200px` to `30px`.
- Part 2: Create a keyframe animation for the shadow change. The shadow should grow smaller when the ball is closer to the ground, and `scale` to half its original size. Additionally, the opacity should change from its initial value of `0.5` to `0.6`, as shadows get darker when closer to the ground.
- Part 3: Add both of these keyframes to their respective ids in the CSS. The staff solution takes roughly 0.45 seconds with a timing-function of `cubic-bezier(0.42, 0, 0.7, 0.5)`, has no delay, repeats infinitely, and alternates (go forward and back). However, there is more than one way to animate; go with whatever keyframe combination/animation options makes most sense to you!

Design Response

Please read the article about color linked in `design_responses.html` and respond to the questions!

Submission

Submit the following files as a **zip** file through the Assignments tab of the WDD Portal:

- index.html
- question1.html
- question2.html
- design_responses.html
- assets/css/style.css
- assets/css/q1.css
- assets/css/q2.css
- assets/img/basketball.svg

Your assignment must be submitted as a **zip** file. Submission will automatically fail if your submission does not contain the index.html or if is not a zip file.

This assignment is due by Monday, **April 8th** at 7:00PM.