## CSCI 342, Fall 2017, Homework # 5

Due date: Friday, December 1, midnight. ZIP all files together, including images and other resources.

## **Instructions:**

- First, follow the instructions found here to build a popup penguin game using just HTML and CSS: https://googlecreativelab.github.io/coder-projects/projects/pop\_up\_penguins/
- Now modify the program and add Javascript (Vanilla or jQuery) to accomplish the first two "Bonus Rounds" as follows.
- For this assignment, use the Javascript DOM as much as possible. Use the createElement procedures and not the innerHTML field. Avoid printing HTML tags. Create objects and attach them as children to existing objects in the page.
- Use Javascript arrays and for-loops to populate the page with penguins instead of hard coding every penguin in HTML. This will allow you to put any number of penguins on the page.
- Choose the position of the Yeti with a random number. Every time you play the game it will be in a different position.
- Add a dropdown box at the top of the page to choose the number of penguins (+ Yeti) in the game. This will be an integer between 2 and 64. Construct this dropdown in javascript, and use a loop to add all the numbers. As soon as the user selects a new number, the new game should load (no submit button).
- Make the penguins stay up when clicked, and disappear when the Yeti is awoken.
- Optional: add real squawks, chirps, and roars.