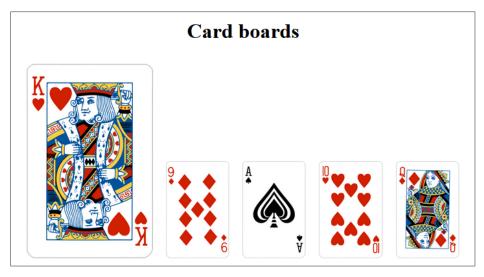
Web Programming

Tutorial 3

To begin this tutorial, please download tut03-starter.zip from the course website.

When you finish, zip all your deliveries to submit to this tutorial's submission box. The zip file's name should follow this format: tclass_sid.zip where tclass is your tutorial class name (e.g. tut01, tut02, tut03, etc.) and sid is your student's ID (e.g. 2101040015).

Activity 1 - Cards



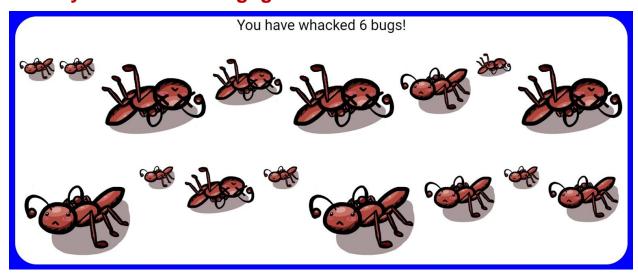
In the cards folder, you're given images of playing cards under the images folder. Create these 2 files inside the cards folder:

- cards.js: populate index.html with images of at least 5 cards
- index.html: html for card board with references to .js files

You have to do the following tasks:

- 1. In cards.js, create an array of links for at least 5 cards. You can use the card pictures inside images folder.
- 2. Create the card board (a container for displaying cards) in index.html.
- 3. Loop the array of images to create img elements add to the card board.
- 4. Add suitable CSS for your HTML.
- 5. When user chooses a card (by clicking), its height is enlarged by 1.5 times.
- 6. User can click another card, but only 01 card enlarged at a time.

Activity 2 - Whack-a-Bug! game



In the whack-a-bug folder under the starter folder. You have to define a function called whackBug so that the game works. Specifications of the whackBug function:

- Changes the image of the bug that was clicked from bug.png to bug-whacked.png
- Add the whacked class to the image that was clicked
- Increment the <u>whack count</u> by 1 (each bug should only be counted once even if clicked multiple times)
- If all 24 bugs have been whacked, change the text in the #game p tag to say "all bugs have been whacked".

→ **Delivery**: modified whack.js

Activity 3 - Simple blog

The HTML, CSS, and part of the JS for a simple blog has been provided for you in the blog folder under the starter folder. You are tasked with writing the addEntry function described below.

Specifications of the addEntry function:

 An article should be appended to the #posts container. Inside should be a third level heading followed by a paragraph. The article should have the class .post added to it.

- The third level heading text content should be the text "Date: " followed by the
 date submitted. The paragraph's text content should be the text "Entry: "
 followed by the entry submitted.
 - Hint: to grab the text from a form element such as input or textarea, use
 value (the attribute named value of the DOM element object)
- If a user double clicks on any of the blog posts, the post that was double-clicked should be removed from the page.
- The content in #date and #entry should be cleared after adding the blog post.
- If the number of blog posts ever hits 3, the "add entry!" button should be disabled.
 - Hint: use the qsa helper function to find the number of blog posts.

→ **Delivery**: modified blog.js

Activity 4 - 3, 2, 1, Go!

Create two HTML pages containing JavaScript code that counts down from 3 in the console. Every second for four seconds, print "3", then "2", then "1", and finally "Go!".

- There are several ways to solve this
- Create two solutions for this activity, one that uses setTimeout and one that uses setInterval. Name them setTimeout.html and setInterval.html respectively.

→ **Delivery**: setTimeout.html and setInterval.html

Activity 5 – Stopwatch

Build a stopwatch.html page which logs the number of seconds passed to the console. In the following specification, you are to replace "CT" with the current time counter in any output statements. The page should adhere to the following behaviors:

- When the #stopwatch button is clicked:
 - If the timer is not running, the stopwatch should begin counting up seconds, logging "CT seconds" to the console each second.
 - Otherwise, you should pause the timer interval. If the button is clicked again, the interval should be started again, continuing with the CT (see example output).

- When the **#reset** button is clicked, the stopwatch's **CT** should be reset to 0, whether or not it is running (continuing the timer as usual with the next output being "1 seconds" if it was running).
- (*) **Hint**: our solution uses two module global variables, one for the timer id, one for the current second count.
- → **Delivery**: stopWatch.html and possibly a .js file