

## Lab 12: an interactive page in Javascript.

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### How to work on your lab task - how to turn in your program:

Turn in your lab 12 task as "20140410-11 Lab 12 task" in the I211 Oncourse site -> Assignments thus:

- For today's lab, each student needs to submit the [Lab Team Feedback Form](#) on Oncourse, on their own, at the end of lab time.
- You will work on this task with your lab team, but only *one* team member needs to turn in the HTML file and the Javascript solution code *while in lab*, to receive full credit for the work done.
- For today's lab, the person responsible to turn in the Javascript solution code is the *second* person listed in your lab team, as from the `teams-lab...` file on Oncourse. If the second person in your team is absent from lab, the next person on the list is responsible to turn in the Javascript solution code, etc.
- Upload your HTML+Javascript file to Oncourse under I211 Assignments->"20140410-11 Lab 12 task". Include the following information as a `<!-- comment -->` at the top of the files you submit:

```
<!-- I211 Spring 2014 - Lab 12 -->
<!-- your name (First, Last) -->
<!-- your IU email address -->
<!-- your I211 lab team number -->
<!-- the names of all your I211 team members -->
```

- Kindly make sure that your Javascript code and HTML page work correctly in a web browser before submitting.
  - To receive any credit for the work done, the Javascript source code file has to be turned in *at lab time and while in lab*. (including the information about yourself and your student team, as listed above. Submissions lacking this information will lose 50% of the assigned grade.)
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## Tasks

1. Start with the HTML file `I211-lab-12-starting-text.html` that is available on Oncourse under Resources->Labs.
2. Write a Javascript script that allows users to swap/toggle every word in the displayed sentence by clicking on the button below the word.
  1. Use HTML buttons as input to the Javascript in the same page.
  2. Each time a button is clicked, the Javascript code should change the word above the button to another word of your choice.
  3. Clicking the same button again should show the previous word.
  4. (please see how the demo page works in lab -- the first button's behavior there is implemented correctly)
3. Please see Lecture 21 notes at the page titled "*Putting it all together: onClick in HTML + a JavaScript function*":
  1. it's a working example of an HTML element being used to invoke a Javascript function:
  2. the *button* HTML input element on that page is used to invoke the *startTime()* Javascript function
  3. the *startTime()* Javascript function calls *document.getElementById* to access the HTML page's element that is enclosed in `<div ... /div>` tags, identifying the element by its *id*, i.e. "*myDivText*" in this case.
  4. the Javascript page then assigns a new value to the HTML page's element through the element's *innerHTML* property.
4. In your own HTML+Javascript, you can provide an *id* to any of the `<td ... /td>` HTML elements that you want to modify from Javascript.
5. Turn in your completed `I211-lab-12-starting-text.html` file to Oncourse before you leave the lab.