

Exercises: Ajax Basics I

Remember that the sample code from the lectures is in your Eclipse workspace, so you can grab any of my HTML, Java, or JavaScript files as starting points.

- 1.** Make an HTML page with a pushbutton that directly pops up an alert box. You do *not* need to load a JavaScript file to do this: your pushbutton can just directly call 'alert("Hi")'. Note that there is no Ajax involved yet, and no <script> tags.
- 2.** Make an HTML page with a pushbutton that calls a JavaScript function that pops up an alert box. The difference here from problem 1 is that the pushbutton invokes a JavaScript function that you wrote, so you have to load the JavaScript file with the <script> tag. There is still no Ajax involved yet.
- 3.** Make an HTML page with a pushbutton that pops up an alert box, where the contents of the alert box are taken from a JSP page. Now you need to use the Ajax process. Here is a sample JSP page that you might want to use (put the JSP page in Web-Content and call it random-num.jsp):

```
Your number is <%= Math.random() %>
```

- 4.** Make a form that contains only a pushbutton. When the user presses the button, a dialog box should pop up showing the first name, last name, and balance of whichever customer has the highest balance. Use my Customer and CustomerUtils (grab them from either review-exercises or ajax-basics-1-exercises). CustomerUtils.getRichestCustomer() will return a Customer object of the person with the highest balance.

A servlet is the best technology to use here, but for initial testing, you could use a JSP page. Here is a simple version that just shows the first name of the richest customer (assuming that you dropped Customer.java and CustomerUtils.java into src/coreservlets):

```
<%@ page import="coreservlets.*" %>  
<% Customer richest = CustomerUtils.getRichestCustomer(); %>  
Richest is <%= richest.getFirstName() %>
```

- 5.** Make another form that also contains a pushbutton. When the user presses the button, a bulleted list should be displayed inside the HTML page. This list should show the first name, last name, and balance of whichever customer has the highest balance.