

Exercises:

Advanced jQuery Capabilities

Make a new Dynamic Web Project.

1. Make a simple text file whose output is a strict JSON object with three properties: num1, num2, and num3. The values of each of the properties should be floating point numbers. Access the URL of the file in your browser.
2. Make an HTML page with a button that, when pressed, calls to the server, gets this JSON data, parses it, constructs a ul list showing the values, and inserts that ul list into the page. Use \$.ajax with the dataType option.
3. Make a JSP page whose output is a piece of JSON containing three random numbers. Following is the *complete* code of that JSP. You can also just copy numbers.jsp from my jquery-ajax-3-exercises project.

```
{ "num1": <%= Math.random() %> ,  
  "num2": <%= Math.random() %> ,  
  "num3": <%= Math.random() %> }
```

Now, make a minor variation of problem 2 that uses this JSP instead of the fixed text file.

4. Make a variation of the previous JSP page that adds a 3-second delay. Following is the *complete* code of that JSP. You can also just copy slow-numbers.jsp from my jquery-ajax-3-exercises project.

```
<% try { Thread.sleep(3000); } catch(Exception e) {} %>  
{ "num1": <%= Math.random() %> ,  
  "num2": <%= Math.random() %> ,  
  "num3": <%= Math.random() %> }
```

Now, make a variation of problem 3 that uses this JSP and shows a temporary “I am working” message during the wait. Remember that you can go to <http://ajaxload.info/> to build and download animated GIFs for this purpose.