Exercises: JSF 2 Expression Language

Note that the source code from the lecture is in the “el” project (EL for “Expression Language”). The code for my exercise solutions is in “el-exercises”.

1. Make a bean with a getFavoriteColors method that returns an array of four colors. Make a JSF page that prints out the colors. Unless you know ui:repeat, your page will need to assume that there are exactly four colors. (We will cover ui:repeat later, but if you feel like trying it, I had a tiny example in the Managed Beans II lecture that you can probably imitate without knowing the details -- see the study-plan.xhtml output near the end of the lecture.)

Note that you can do this problem without making a form, an action controller, or any navigation rules. Just declare the bean with @ManagedBean (or in faces-config.xml) and test in a standalone page such as test-colors.xhtml (of course, you must use the URL test-colors.jsf). You could even use one combined page to test all of the problems.

2. Redo the previous problem, but use a List instead of an array. Again, you can assume that there are exactly four colors, or you can look at the Managed Beans II lecture and try to figure out how to use ui:repeat from the study-plan.xhtml example.

3. Make a very small HashMap that associates employee IDs (e.g., “a1234”) with employee names (e.g., “Harry Hacker”). Make a method that returns the Map, then in the facelets page, output the names for a few specific IDs.

4. Make a getter method that outputs an array of numbers (hint: use Integer instead of int), some of which are negative and some of which are positive. Output the non-negative ones in a bulleted list. Ignore the negative ones. As before, unless you read up on ui:repeat, you should assume you know ahead of time how many elements are in the array.