

Exercises: Looping and ui:repeat

Remember the advice from the exercises on the expression language: you can create a managed bean, then test it out in a standalone JSF page. In this case, you would just make a managed bean that has a property (i.e., getter method) that returns an array or List. You don't need a form, action controller, or results page. Also, don't forget that you must define the ui: namespace (in the <html....> start tag) in pages that use ui:repeat. Finally, if you are using Tomcat or another servlet 2.5 server (rather than a real Java EE 6 server), be sure that WEB-INF/lib contains the JSTL JAR files in addition to the JSF ones.

- 1.** Make a bean with a getColors method that returns a small String[] (or List<String>). Build a list that displays all of those color values.
- 2.** Make another bean (or add a new method to the previous bean). This time, make a getFriends method that returns a Name[] or List<Name>. The Name class should have getFirstName and getLastName methods. Build a list that displays the full names of the people.
- 3.** Return to the getColors method. But this time, instead of building a list, build a single <h2> element that says something like “Your colors are blue, red, and green” Notice that there are commas after each color except for the last one, and the word “and” before the last color but not previous ones.
- 4.** Define a SemesterGrades class that stores an array of exam grades. Make an array of SemesterGrades, and display the exam grades in a table. Assume that each SemesterGrades object contains the same number of grades. Remember that you cannot loop down an int[], but you can loop down an Integer[]. If you feel extra-inspired, add a heading at the top of the table that says “Exam 1”, “Exam 2”, etc.