

# Exercises: Managed Beans II

Make a new Dynamic Web Project based on jsf-blank project or on your project from the previous exercises.

1. Copy your a-b-c-defeat-victory application from the Programming Basics exercises (or, make this project a copy of your previous project). If you didn't have a working version, copy mine the from basics-exercises project. Give the beans (or bean) custom names, and change all of the facelets (.xhtml) pages to use the custom names.
2. Make the beans (or bean) of problem 1 be application-scoped.
3. Make a form that collects a preferred foreground and background color. Display all of the pages in the a-b-c-defeat-victory app in those colors. Ignore empty strings, and don't let the foreground and background colors be the same. Use a separate session-scoped bean for the color preferences, rather than adding colors to the existing navigation beans (why?).

Note that h:body does not support the “bgcolor” and “text” attributes, but it does support the “style” attribute. For example:

```
<h:body style="color: black; background-color: white;">
```

You could also build a “style” tag inside h:head. For example:

```
<style type="text/css">
  body { color: black; background-color: white; }
</style>
```

Then, instead of hard-coding “black” and “white”, get those values from the color preferences bean. For example:

```
<style type="text/css">
  body {
    color: #{colorPrefs.foreground};
    background-color: #{colorPrefs.background};
  }
</style>
```