

# Exercises:

## JSP Scripting Elements

1. Make a JSP page that randomly selects a background color for each request. Just choose at random among a small set of predefined colors. Be sure you do not use the JSP-Styles.css style sheet, since it overrides the colors given by `<BODY BGCOLOR="...">`.

Note: in Eclipse, *all* Java code goes in `src/subdirectory-matching-packageName`, regardless of whether the Java code is a servlet or some other kind of Java class. Then, if you want a class called `ColorUtils` with a static method called `randomColor` and have it be in a package called `utils`, you might write something like this:

```
package utils;

public class ColorUtils {
    public static String randomColor() {
        if (Math.random() < 0.5) {
            return("BLUE");
        } else {
            return("RED");
        }
    }
}
```

In JSP, you can call the method with

```
<%= utils.ColorUtils.randomColor() %>
```

Also, if you want to test some Java code separately from a JSP page, note that in Eclipse, if your class has a “main” method, you can right-click anywhere in the file, choose `Run As --> Java Application`, and Eclipse will run main and put the output in the console at the bottom.

2. Make a JSP page that lets the user supply a request parameter indicating the background color. If no parameter is supplied, a background color should be selected at random.
3. Make a JSP page that lets the user supply a request parameter indicating the background color. If no parameter is supplied, the most recently used background color (from a previous request by *any* user) should be used.