

Exercises: Filters

1. Copy the ReportFilter from the “filters” project. Apply it to at least one servlet and at least one JSP page. Check the Tomcat window to verify that it is reporting accesses to those pages.
2. The name of your CEO keeps changing, but it is already embedded in several pages. Make a filter that updates those pages. Don’t hardcode the names into the filter itself.
3. Make a filter that turns the entire page (HTML tags and all) into lower case. Don’t worry about whether or not this results in legal HTML (e.g., changing case of the DOCTYPE line is not legal, but you don’t have to worry about that).
4. Make a filter that removes all BLINK tags from the resources to which it is applied.

Note: the `replaceAll` method can be used to replace all occurrences of a given substring (regular expression, actually) by another substring. For example,

```
"foobarbazfoobarbaz".replaceAll("foo", "Test");  
returns
```

```
"TestbarbazTestbarbaz"
```

Prepend the first argument with `"(?i)"` for a case-insensitive replacement.

5. Make a filter that prints a report saying whether or not the user accessing the designated resource is already logged in as an administrator. Test it by applying it to resources from the previous exercise. (Hint: just copy/rename the Web app that supported form-based security, and add in the filter.)