

CISC 3120 Fall 2012 Homework 8

Instructions

- This assignment is **due by midnight on Sunday November 25th** and you will submit this online — instructions below.

1 Overview

For this homework you will write an applet. You will submit the files in the normal way, but you will also upload them to one of our department web servers so that we (you and I) can view them online as well as locally on your machine.

2 An applet

The first part is the same as Lab IV.2

1. Create an applet that has a button, two text fields, and a scroll pane.
2. When the button is pressed, the applet should take the content of one text field (some string) and print it in the scroll pane as many times as indicated by the second text field (some number).

Thus, if the first text field includes the text `What?`, and the second includes the number `7`, the scroll pane would contain:

```
What?  
What?  
What?  
What?  
What?  
What?  
What?
```

The example `ShowApplet`, which you can download from the class website, may be helpful in writing your applet.

Remember to create an HTML file that loads the applet. Even if you are using the applet viewer to debug your applet, I will be using a browser. And obviously you will need the HTML file so that your applet can be viewed when you put it online

The HTML file should be called `myapplet.html`.

3 Challenge problem

For extra credit, use a thread to make the applet print the message (approximately) once every second for as many times as are indicated in the second text field.

4 Submission

There are two piece to the submission:

1. Submitting your source files through the submission site.
2. Uploading your applet to the webserver.

4.1 Submission site

Follow these submission instructions:

1. Create a ZIP archive from the .java files for your applet and myapplet.html.
2. Go to:

```
http://agents.sci.brooklyn.cuny.edu/parsons/cisc3120/
```
3. Login and submit your ZIP archive.
4. You can submit as many times as you like before the deadline—only the final version of the homework will be graded.

4.2 Web server

Follow these submission instructions:

1. Login in to the webserver. You will need to use the secure shell SSH, so you will need to download an SSH client if you do not have one. You can use ssh from the OSX command line, and PuTTY is a simple free SSH client for Windows.
You will need the username and password that Prof Parsons gave you in class, and the IP address of the webserver.
If you do not have these, email Prof Parsons
2. When you login for the first time you will be prompted to change your password.
Remember your password. If you lose it, we will have to go to the department sysadmin to get it reset, and if this makes you late submitting your homework, you won't be exempt from the late penalty.
3. You will need to create a directory for your applet. Do this by typing:

```
mkdir public.html
```


This is the name that Apache looks for, so get it right.
4. Now you need to make the directory readable, so do:

```
chmod 755 public.html
```
5. Then upload the files for your applet, not forgetting the HTML file.
To upload you will need a tool capable of using the Secure File Transfer Protocol (SFTP). Again this is available from the OSX command line, and there are free applications for Windows that implement this.
6. You need to put the files in the public.html directory.

7. You should be able to just upload the `.class` files for you applet, but you can also upload the `.java` files and compile them on the server.

To compile the file `myFile.java` use:

```
javac myFile.java
```

8. Once all the files are uploaded, you need to make them accessible just as you did for the `public.html` directory.

9. You will also need to make your top-level directory (the one that holds `public.html` accessible. When you are in that directory you need to use:

```
chmod 755 .
```

10. Now you should be able to check that your applet runs on the server by pointing your browser to:

```
http://<server-ip-address>/~<your-user-name>/myapplet.html
```

11. Again you can submit as many times as you like before the deadline.

4.3 Note this

Failure to follow any of these these instructions will result in points being taken away from your grade.

The number of points will be in proportion to the extent to which you did not follow instructions.

It is probably tempting to upload files to the web server after the deadline. However, I will be checking file modification dates, and the the date and time that I assign to your homework when calculating late penalties will be the later of the times for the latest submission through the submission site and the latest change to any of the files on the server.