

CIS351

Homework 1

Reading for Class

Read Zybook: Chapter 2.1-2.15, 3.1-3.5, 3.7-3.12

Download Materials

Download the following files from Blackboard HW1 Folder.

- Sample1.java
- Sample2.java

The Assignment

This assignment

- sets you up with [DrJava](#),
- walks you through submitting homework via Blackboard, and
- earns you the easiest points of the course.

Important:

- *No teams allowed on this assignment.*
It needs to be an individual effort.

Part 0: Installing the Java Development Kit (JDK) and DrJava on Your Computer

1. [A walk-through for installing the JDK by the DrJava folks](#)

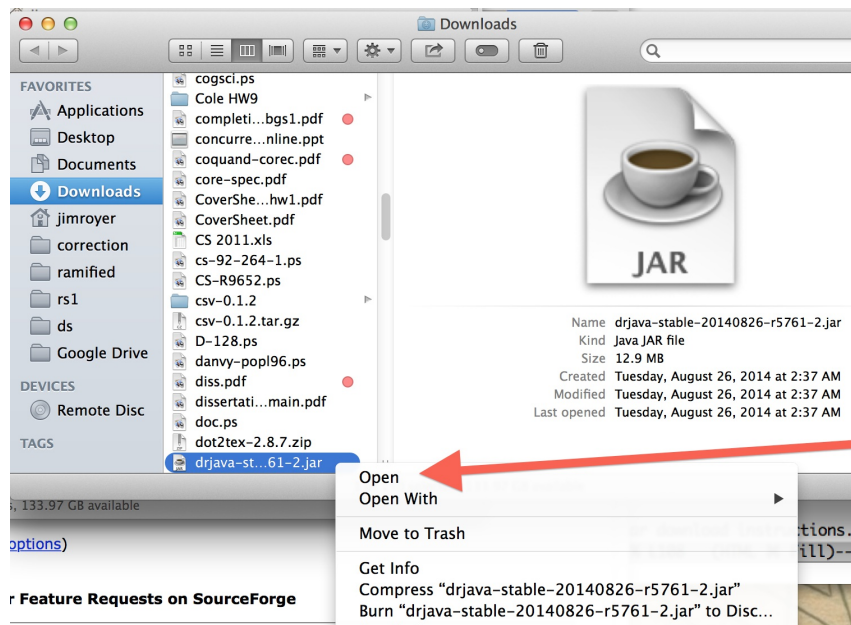
NOTE: This is out-of-date in recommending Java 6. You should pick the Java 8 version of

things.

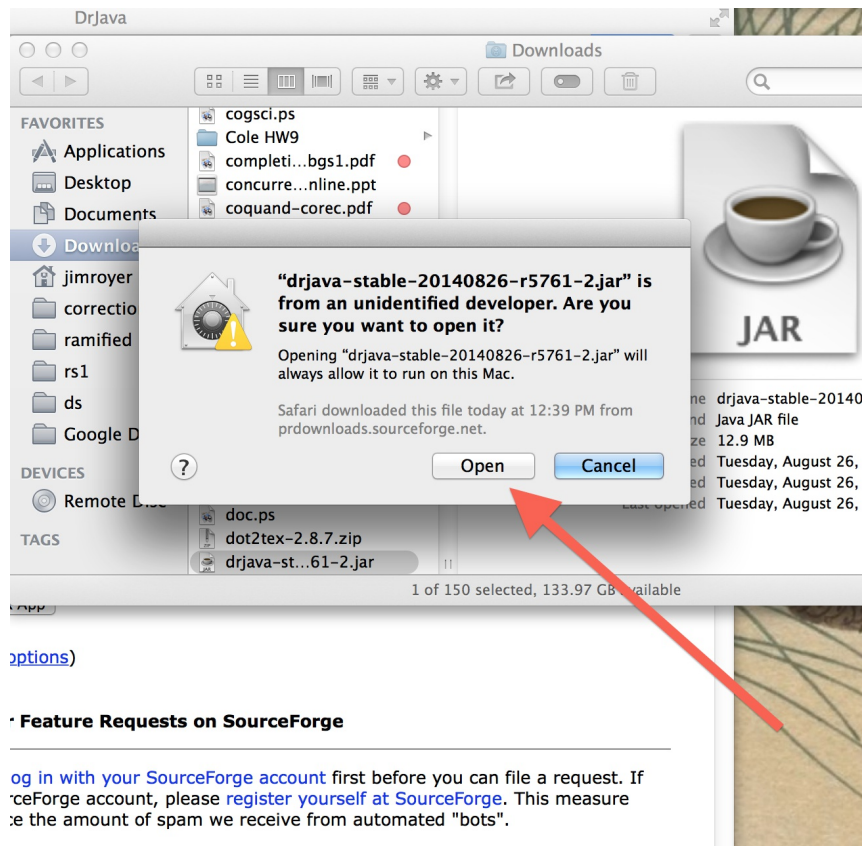
2. A walk-through for installing DrJava itself.

Extra steps for Mac OS X 10.8 (Mountain Lion) and later.

- Be sure to download the Java 8 JDK. (Mac OSX has the Java 6 JDK preinstalled, but we are using Java 8 in this class.)
- **DO NOT** download the Mac OS X App. Download the jar file instead. (Also move the jar file someplace you can find it again.)
- To open the jar file for the first time, hold down the control-key and double-click the file. You should see the following (sans the big red arrow).



Select `open` and you should see:

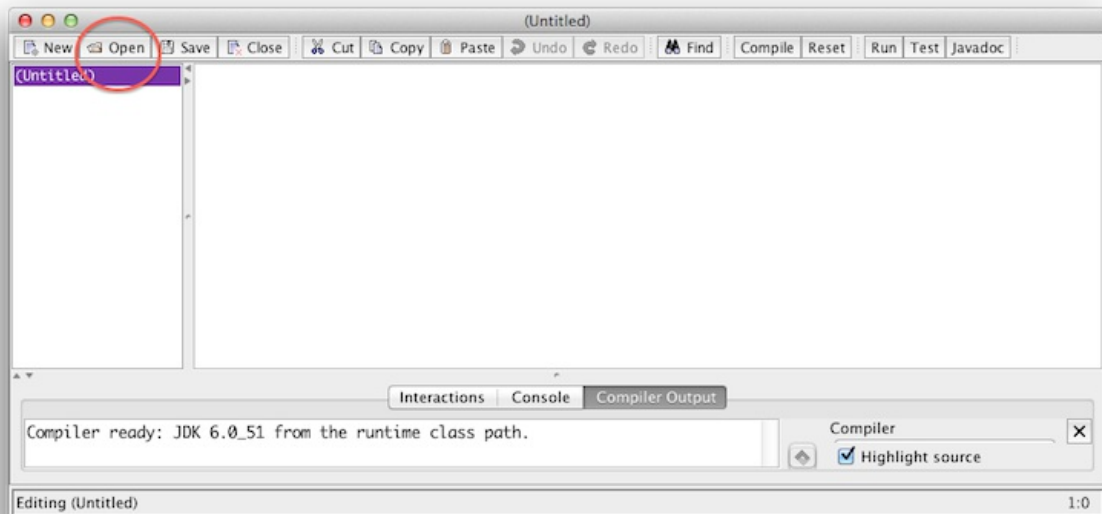


Click on `open` and DrJava should start up.

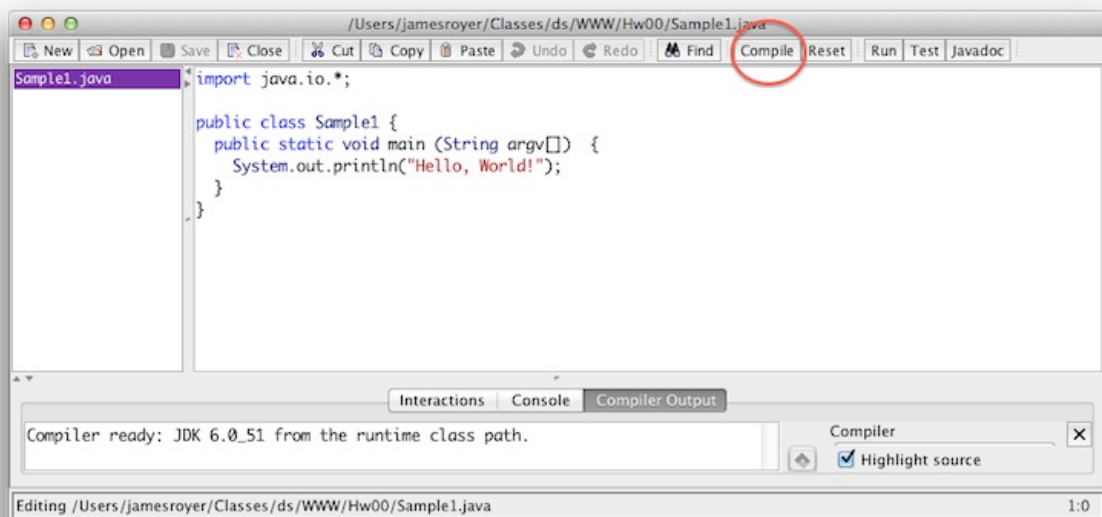
After this you should not have to go through this nonsense again when opening this file.

Part 1: Loading, Compiling, and Running a Java Program (in gory detail)

1. Make a folder (aka directory) for this homework; call it something inventive like `hw01`.
2. Visit the file `sample1.java` and save it as a plain text file in your just created folder.
3. Start up DrJava (via the App or the jar file). The DrJava folks walk you through this [here](#).
4. In the DrJava window, click on the `open` button and find and select `sample1.java`, the file that you just saved.

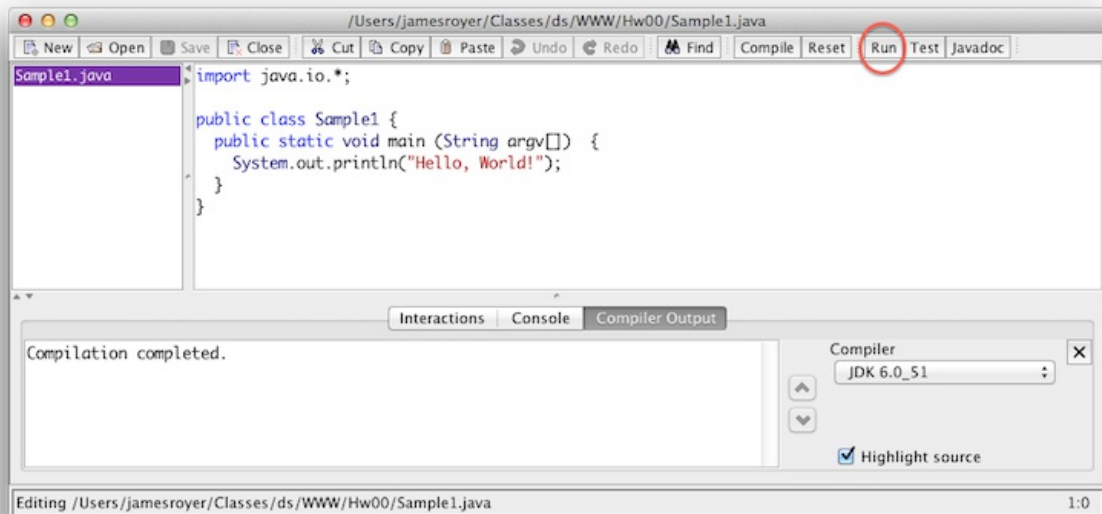


5. To compile the program, click on the `compile` button.

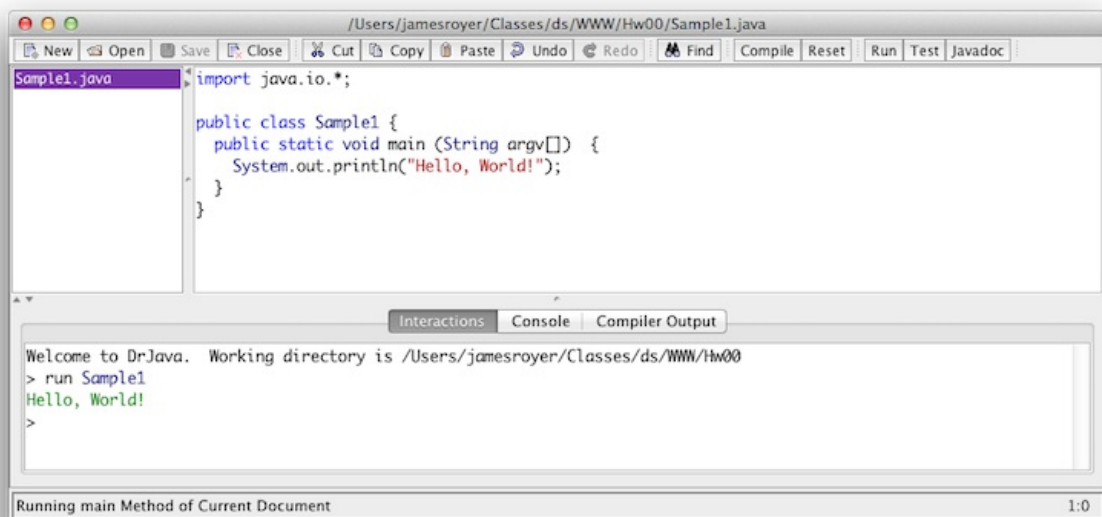


If you look in your `hw01` folder, you will see that file named `sample1.class` has been created.

6. To run the compiled program, click on the `run` button.



whereupon you will see something like



7. If you want to be tidy, dismiss the `Sample1.java` by clicking the `close` button.

Part 2: Editing and Debugging

1. Go through the same drill as before, except now for the file `Sample2.java`.

2. When you try to compile `Sample2.java`, DrJava will report an error along the lines of:

```
1 error found:
File: /Users/jimroyer/Classes/ds/WWW/Hw01/Sample2.java [line: 5]
Error: /Users/jimroyer/Classes/ds/WWW/Hw01/Sample2.java:5: ';' expected
```

That is, the line with `System.out.println("Hello, World")` is missing an semicolon at the end.

3. The DrJava window with the program displayed is an editor window. So click on that window, navigate around, and add the missing semicolon.
4. Now compile and run the program.
5. Once the program is working, save it (with, surprise, the `save` button).

Submission Instruction

1. Submit Your patched `Sample2.java` via Blackboard. See the [submission process](#) here
2. Submit a filled out version of the standard **cover sheet**.

Don't forget

the [submission process](#) or
the [grading criteria](#) or
the [cover sheet](#).

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This homework is inspired by a HW designed by Prof. Jim Royer