CS100J 14 November 2006 Applications and Applets (Chapter 16 of the text)

We also look at html, since we need it to use applets.

I never let my schooling interfere with my education. Mark Twain

Learning makes a man fit company for himself.

Anon

The primary purpose of a liberal education is to make one's mind a pleasant place in which to spend one's time.

Sydney J. Harris (1917-1986) American journalist.

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Every Java application needs a class with a method main that is defined like this.

To start the application, method main is called.

The parameter, an array of Strings, can be used to pass information into the program.
```

public class CLAS {
...
public static void main(String[] args) {
...
}
...
}

> cd
> dir
(list of files)
> java CLAS

Terminal window
(can type "java CLAS" in DrJava Interactions pane)

jar file (Java Archive file)
(like tar file (Tape Archive file))

Contains (among other things)
(1) .class files
(2) a "manifest", which says which class has method main

Manifest:
A list of passengers or an invoice of cargo for a vehicle (as a ship or plane).

Standalone Java programs

Suppose images.jar contains a Java application

It has a class with a static procedure main, and its manifest names the class.

- Execute it by double clicking its icon in a directory.
- Execute it by typing

java -jar images.jar

in a terminal window (or DOS, or command-line window)

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Creating a jar file 1. Navigate to the directory that contains the .class files. 2. Create a text file x.mf that contains one line (with a line-feed): Main-class: <name of class> 3. In the directory, type: -cmf x.mf *.class app.jar Manifest name of file expands to name of to create manifest file name all the .class files







