## CS100J 08 November 2005: Applications and Applets

- Java application; How to produce a stand-alone application, to be run without using DrJava or any such IDE. Read sections 16.1 and 16.2.
- Java applet; how to put one in an html page. Read sections 16.3 and 16.4.

I see no hope for the future of our people if they are dependent on frivolous youth of today, for certainly all youth are reckless beyond words .... **Hesiod, 8th century BC** 

What is happening to our young people? They disrespect their elders, they disobey their parents. They ignore the law. They riot in the streets inflamed with wild notions. Their morals are decaying. What is to become of them? **Plato** 

Children now love luxury; they have bad manners, contempt for authority; they show disrespect for elders and love chatter in place of exercise. Children are now tyrants, not the servants of their households. They no longer rise when elders enter the room. They contradict their parents, chatter before company, gobble up dainties at the table, cross their legs, and tyrannize their teachers. Attributed to Socrates by Plato

The world is passing through troublous times. The young people of today think of nothing but themselves. They have no reverence for parents or old age. They are impatient of all restraint. They talk as if they knew everything, and what passes for wisdom with us is foolishness with them. As for girls, they are forward, immodest and unladylike in speech, behavior, and dress. Peter the Hermit in A.D. 1274

## **Java Application**

Java Application: A class that has a method declared like this:

```
public static void main(String[] pars) {
...
}
```

You have not need to learn about applications and method main yet, because DrJava has its interactions pane. In most other systems, students have to learn about this strange method main on day 0 of a course.

The parameter is a String array. It is used to get values into the program when it starts.

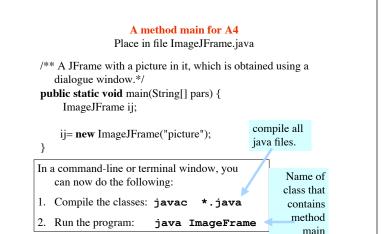
2

```
public class C {
    Java Application
    ...
    public static void main(String[] args) {
        ...
    }
    ...
}

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

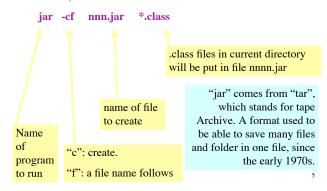
Terminal window

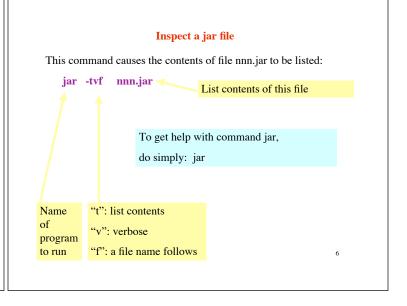
(can type "java C" in Dr Java Interactions pane)
```

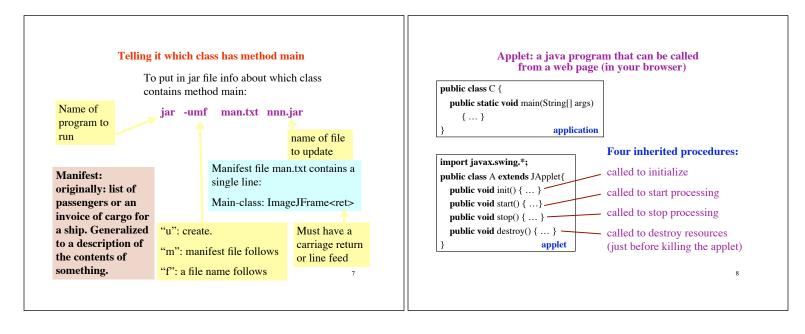


## Making a jar file

In the terminal window, set to the directory that contains the .class files, do this:







```
An html (HyperText Markup Language) file
<html>
  <head>
                                           tags
    <title>FacultyApplet</title>
                                           <html>
                                                     start an html page
 </head>
 <body>
                                           <head>
                                                     start the "heading"
    <B>This</B> is
                                           <title>
                                                     the title for the page
            an <i>Applet!</i>
   <body>
                                                     start the body, content
   <br>><br>>
                                                     of the page
                                                     begin a paragraph
                                           >
    <applet archive="AppletClasses.jar"
                                                     begin boldface
                                           <b>
        code="FacultyApplet.class"
        width=800 height=550>
                                           <i>>
                                                     begin italics
       </applet>
                                           <applet> start a Java applet
   line break (no end tag)
                                           <br>
 </body>
</html>
                                                                     9
```