CS100J 21 February 2005 Casting About

- Casting between classes
- 4. The class hierarchy
- 2. Apparent and real classes.
- 5. function equals
- 3. Operator instanceof
- Study Secs 4.2 and 4.3 in text

Procrastination

Leave nothing for to-morrow that can be done to-day. Lincoln

How does a project get a year behind schedule? One day at a time. Fred Brooks

I don't wait for moods. You accomplish nothing if you do that. Your mind must know it has got to get down to work. Pearl S. Buck

When I start a new project, I procrastinate immediately so that I have more time to catch up. Gries

Buy a poster with the procrastinator's creed here: http://www.art.com/asp/sp-asp/_pd--10001845/Procrastinators_Creed.htm

About Prelim 1

After today, you have learned all the basics of classes, and done extremely well. Be proud of yourselves. Today's lecture, on casting, is **not** on prelim 1.

The prelim requires that you:

- Know terminology (that means knowing what things mean). The handout about the prelim summarizes the terms and their meanings.
- 2. Draw folders (instances, objects) of a class.
- Be able to execute program segments yourself, drawing objects as necessary.
- 4. Write a class or subclass definition, including its constructors.
- 5. Be able to write a testing method in a Junit class (as on A2).
- Be able to write simple functions that manipulate Strings. Good way to study is to practice: do many exercises on pp. 100-103. Write them, put them into DrJava, and test them!!!

2

```
Class Animal
                                                        We put each method on
                                                        one line to save space on
public class Animal {
                                                        the slide. Don't do it in
  private String name; // name of the animal
                                                        your program.
  private int age;
                        // age of animal
  /** Constructor: an Animal with name n, age a */
  public Animal(String n, int a) { name= n; age= a; }
                                                                        Animal
  /** = "this Animal is older than h" */
                                                         name
  public boolean isOlder(Animal h)
{ return this.age > h.age; }
                                                         Animal(String, int)
  /** = the noise that the animal makes --
                                                         isOlder(Animal)
         " in class Animal */
                                                         getNoise()
  public String getNoise () { return ""; }
                                                         getName()
  /** = the name of this Animal */
  public String getName() { return name; }
  /** = a description of this Animal */
  public String toString() { return "Animal " + name + ", age " + age; }
```















