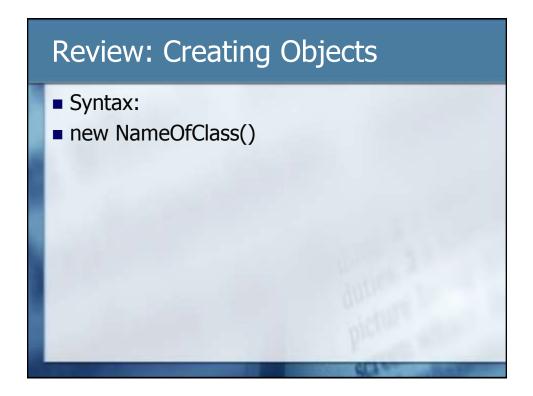


Announcements

- Lab 1 due 2/13
- Lab 2 begins this week in recitation due the night before your next recitation
- Exam 1 Wednesday, February 9 (first half of lecture – there will be class following the exam)

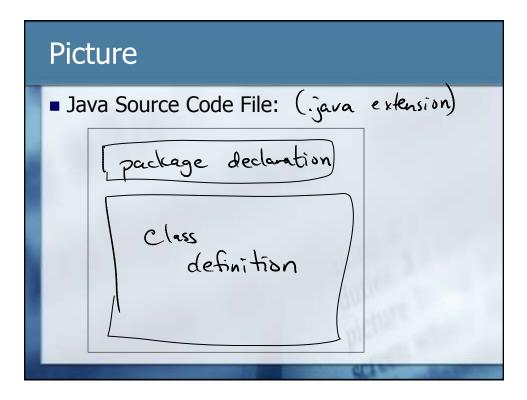


What does new do?

- 1. Determines the size of the object and reserves memory for it
- 2. ...
- 3. Returns the starting address of the block of memory where the object is stored (a reference to the object)

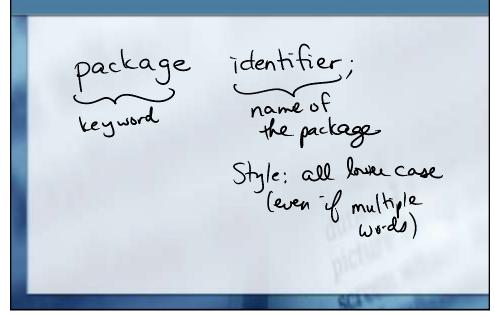
Filling in 2 New calls the constructor of the class to initialize the object. What is a constructor? Special capability that sets the initial state of an object

Java Source Code Files - Each file contains the definition of exactly one class -Java s.c.f. end with the gava extension



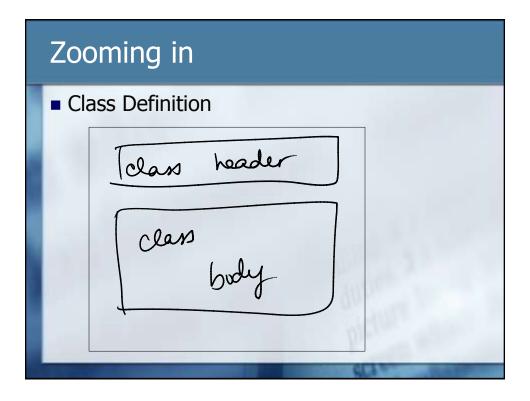
Package Declaration Indication of what package the class belongs to.

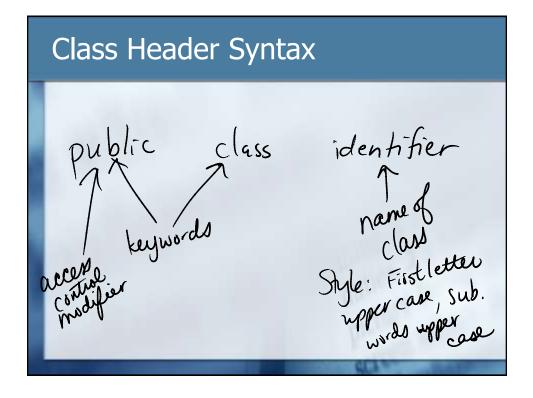
Package Declaration Syntax

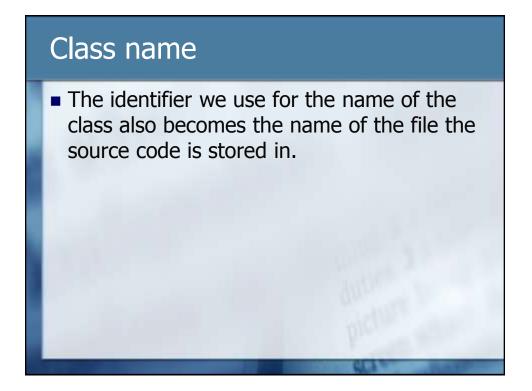


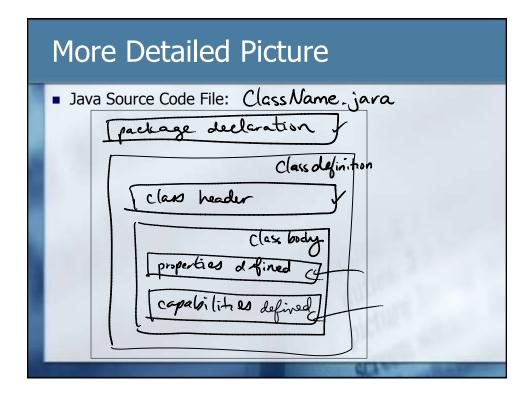
Package name

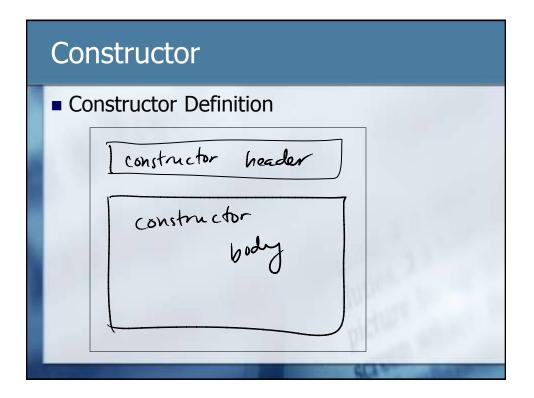
 The identifier we use for the name of the package also corresponds to the directory where the source code file is stored.











Constructor Header Syntax

public identifier () accesse rame of constructor porometer widther * must be just the same as the names of the class

Starts with Z starts with Z staff inside (possibly) endo with Z

Memory Diagrams

 Sometimes, we want a pictorial view of what is going on while a program is running, so we can use memory diagrams to help us keep track of the objects and variables in our programs.

Memory diagrams $\Box \in variables$ $\bigcirc = objects$

Terrarium	terrarium;
terrarium	
1.000	
	CON- DATE

terrarium=new Terrarium(); terrarium Terransum

Ant ant=new Ant(); ant Ant

Ant anto-new Ant(); anto Ant Ant O, Ant

