

CSE 115/503

February 1-5, 2010

Announcements

- Lab 2 in recitation this week
- Exam 1 is Friday, February 5th – review in class on Wednesday, February 3rd – Review sheet posted on Course Schedule page of course website.

Class definition: formal description
of the properties & capabilities
an instance of the class will
have [Java code]
|
object

new Name of Object ()
↑ argument list

- ① Determines the size of the object & reserves appropriate amount of memory
- ② Calls the constructor of the class to initialize ~~an~~ the object
- ③ Returns the starting address of the block of memory where the object is stored
(a reference to the object)

Constructor :

Special method (capability)
used for object creation

→ Sets up the initial state
of the object

Java Source Code File

package declaration

Class
definition

Syntax: Package declaration

package
keyword

identifier;

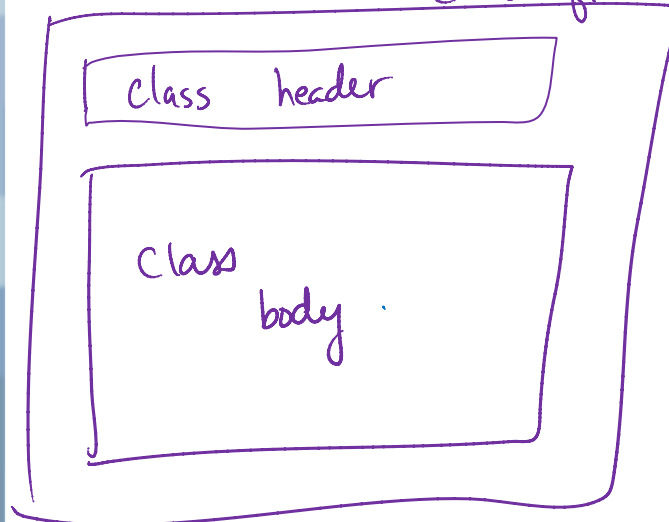
name of the package

Style: all lower case

nested packages are
separated by "." ("dots")

"graphics.colors. "

Class definition



Syntax: class header

public
keyword

access
control
modifier

class
keyword

identifier

name of class

Style: first letter
uppercase; subsequent
words uppercase

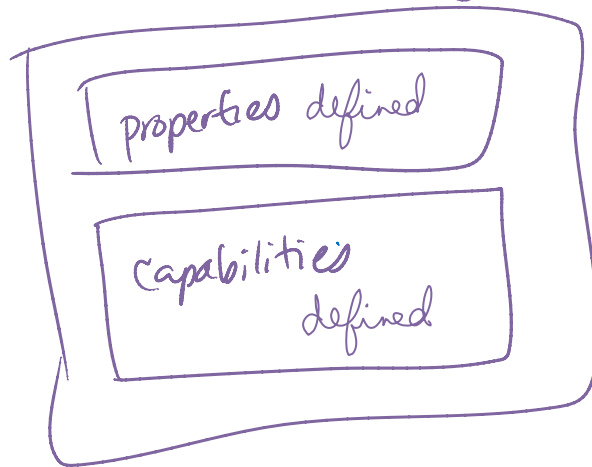
Syntax: class body

{ }

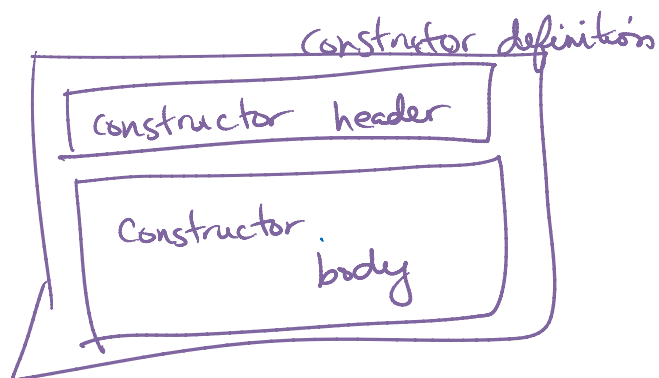


typically we put stuff
between { } (optional)

Inside a class body



First capability: Constructors



Syntax: constructor header

public **identifier** ()
name of constructor
which is the same identifier
as the class name

parameter list

Syntax: ~~class~~ Constructor body

{ }

again, usually something inside

Exercise:

Write the Java Source Code for a class named Date in a package named calendar.

```
package calendar;  
public class Date {  
    public Date () {  
        ** Code here for Lab3-part1  
    }  
}
```