CS1110 2 Feb 2010 Customizing a class Summary of lectures: On course home page, click on "Lectures" and then on "Outline of lectures held so far' **Reading for this lecture:** Sections 1.4, (p. 41); 13.3.1 (p. 376). Read all "style notes" and referenced PLive lectures (activities). Quote for the day: Reading for next lecture: • Fields; getter & setter methods. Secs 1.4.1 (p. 45) & 3.1 (pp. 105– I have traveled the length and breadth of this country and talked with the best people, 110 only) and I can assure you that data • Constructors. Sec. 3.1.3 (p. 111processing is a fad that won't 112) last out the year. Testing. App. I.2.4 (p. 486) -Editor in charge of business books for Prentice Hall, 1957

People learn differently.

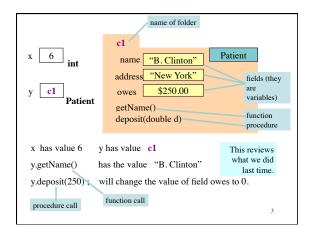
• active versus reflective learners
learn by doing vs. learn by reflection; groupie vs. loner

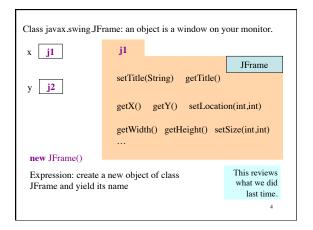
• sensing versus intuitive learners
practical/careful vs. fast/innovative

• visual versus verbal learners
pics, charts, films vs. words, explanations

• sequential versus global learners
logical, step-by-step, bottom-up vs. big-picture

Course outline webpage has link to website of Felder and Brent where you can read about this and take a self-scoring test to see your strengths/weaknesses





```
Class definition: The java construct that describes the format of a folder (instance, object) of the class.

/** description of what the class is for

*/

public class C extends <superclass-name> {
    declarations of methods (in any order)

}

Class C has all the fields and methods that <superclass-name> does, in addition to those declared in C. Class C inherits the fields and methods of <superclass-name>.
```

```
First example of a procedure and of a function

/** description of what the class is for */
public class subclass-name extends superclass-name {
    /** Set the height of the window to the width */
    public void setHeightToWidth() {
        setSize(getWidth(), getWidth());
    }

/** = the area of the window */
    public int area() {
        return getWidth() * getHeight();
    }
}
```

```
import javax.swing.*;

/** An instance is a JFrame with methods to square it and to provide the area of the JFrame */
public class SquareJFrame extends JFrame {
    declarations of methods
}

folder (object) belongs in file drawer for class
SquareJFrame

To the left, draw a manila folder of class SquareJFrame.
When we define methods, put them in the proper place
```

```
import javax.swing.*;
/** An instance is a JFrame with methods to square it and
to provide the area of the JFrame */
public class SquareJFrame extends JFrame {
    /** = the area of the window */
    public int area() { ... }

    /** Set the height equal to the width */
    public void setHeightToWidth() {...}
}

The class and every method in it has a comment of the form
    /** specification */

It is a Javadoc comment. Click on javadoc icon in DrJava to
    extract class specification. DO THIS AT LEAST ONCE IN LAB.
```

