CSCI 1321 November 3, 2005

Administrivia

• Reminder: Homework 5 design due today, code next Tuesday.

Slide 1

GUIs in Java — Recap of Main Ideas

- Components and containers.
- Layout grouping components in containers, layout managers. Components have minimum and preferred sizes; layout managers readjust sizes differently.
- Event handling listener interfaces, "add listener" methods.

 Painting — predefined components do for you, or you can roll your own using graphics classes.

Slide 2

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GUI-Based Programs in Java

 A common way to structure simple programs: Put most/all setup code in constructor, have main method just create an instance and call setVisible. Sun's tutorial shows another approach, said to be more thread-safe. Main class can extend JFrame or have a JFrame variable.

Slide 3

- Usually need instance variables to represent persistent data anything needed by more than one method (including ones to handle events). This include components needed by more than one method.
 - If data becomes complex, considering making a separate class for it "Model / View / Controller" paradigm.
- There are some compiler pitfalls with variables used in anonymous inner classes if local, may have to declare final.
- Let's do another example ...

Minute Essay

• None — quiz.

Slide 4