Lecture 20
Swing Component Models

• Many Swing components come with matching models
  – JList and JTable are most common.
  – Models defined as interfaces.
    • Simple default implementation usually provided.
    • Abstract implementation also usually provided.
      – Handles interaction with components
      – Subclasses must call certain methods to signal changes.
    • More complex custom models can implement interface completely if necessary.

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Model-View Inadequacies

• Good for simple, direct UI elements
  – Model driving UI is just one object
  – UI reflects model state directly
  – User interactions with view have direct mapping to updates to model.

• Complex behavior harder to express
  – Dynamic user interfaces
  – Complex models
  – Contextual user interactions
Classic MVC

http://www.oracle.com/technetwork/articles/javase/mvc-136693.html
Alternate MVC

http://www.oracle.com/technetwork/articles/javase/mvc-136693.html
Calculator Example

• Calculator with history.
  – Kind of like old timey account’s calculator with tape register

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